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OM nucleic - nucleic search, using sw model

Run on: January 8, 2004, 17:18:44 ; Search time 535 Seconds

(without alignments)
10313.367 Million cell updates/sec

Title: US-10-006-485A-139

Sequence: 1 999999CGGCTGCTGAGCA.....AAAAAAAAAAAAAAAAAGA 2044

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

N_Geneseq_19jun03:*

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2: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA1981.DAT:*

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8: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA1987.DAT:*

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20: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA1999.DAT:*

21: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2000.DAT:*

22: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT:*

23: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT:*

24: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2002.DAT:*

25: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	2044	100.0	2044	22	AAFS4299	DNA encoding prote
2	2044	100.0	2044	24	ABJ55559	Human angiotensin
3	2044	100.0	2044	24	ABJ88170	Human PRO1412 (UNQ
4	2041	99.9	2043	21	AAJ37633	Human encoding huma
5	2032	99.4	2043	24	ABK33622	Human signal pepti
6	1998.2	97.8	2011	21	AAZ98132	Human cancer suppr
7	1935.2	94.7	2498	24	ABX34032	Nucleotide sequenc
8	1889.6	92.4	1930	22	AAF25176	

9	1356.8	66.4	1556	22	AAF94473	Human hydrophobic
10	1284.6	62.8	1490	20	AAK97964	Human secreted pro
11	1155.8	56.5	1188	24	AAK97018	DNA encoding human
12	1016	49.7	1016	24	AAK62589	cDNA sequence #376
13	970.4	47.5	5920	22	AAK85139	Human immune/haema
14	929.8	45.5	933	22	AAK25166	Nucleotide sequenc
15	770.4	37.7	6197	24	ABA00061	CADHP-8 coding seq
16	581	28.4	581	24	ABK51586	Human cDNA encodin
17	488.2	23.9	4530	23	AAK68062	DNA encoding novel
18	486.4	23.8	3310	25	ABT32158	Human neuroblastom
19	441.2	21.6	514	24	ABT11068	Human breast cance
20	432.2	21.1	1778	22	AAK84200	Human immune/haema
21	423	20.7	431	21	AAK74829	Human ORFX ORF384
22	422.4	20.7	504	22	AAK94463	Human hydrophobic
23	282.6	13.8	300	16	AAT26043	Human gene signatu
24	218.2	10.7	929	22	AAK94126	Human neuroblastom
25	54.6	2.7	88421	24	AAK40781	8642Int genomic DN
26	53.2	2.6	1321	21	AAK15332	Human prostate can
27	52.6	2.6	2329	22	AAK7884	Human secreted pro
28	52.4	2.6	694	22	AAK06200	Human uteroglobin
29	52.4	2.6	2001	25	ABK72464	Nucleotide sequenc
30	52.2	2.6	2300	25	ABK63220	Human cDNA #220 di
31	51.4	2.5	2797	25	ABT19785	Aspergillus fumiga
32	51.4	2.5	3048	25	ABT17971	Human secreted pro
33	51.2	2.5	2031	21	AAK55226	Human secreted pro
34	51.2	2.5	2031	21	AAK55227	Human ovarian anti
35	51.2	2.5	3353	24	ABO54155	Human secreted pro
36	51.2	2.5	3354	24	AAK55197	Human clone cg3852
37	51	2.5	51	21	AAK76891	Human polynucleoti
38	51	2.5	385	22	AAK84859	Human polynucleoti
39	51	2.5	426	22	AAK86332	Mouse lTRP-4 long
40	51	2.5	5440	25	AAK44838	Human cDNA encodin
41	50.8	2.5	811	23	ABK72047	cDNA encoding nove
42	50.8	2.5	811	24	ABK91639	Human colon cancer
43	50.8	2.5	892	21	AAK98035	cDNA encoding for
44	50.8	2.5	1154	22	AAK28109	cDNA encoding huma
45	50.8	2.5	1154	24	ABK68249	

ALIGNMENTS

RESULT 1

AAFS4299 standard; DNA; 2044 BP.

AC AAF54299;

DT 02-APR-2001 (first entry)

DE DNA encoding protein of the invention #42.

XX Secreted; transmembrane; gene therapy; ss.

KW Unidentified.

OS

PN WO200078961-A1.

PD 28-DEC-2000.

XX

PF 18-FEB-2000; 2000WO-US04342.

XX

XX 23-JUN-1999; 99US-0141037.

PR 20-JUL-1999; 99US-0144758.

PR 26-JUL-1999; 99US-0145698.

PR 01-SEP-1999; 99WO-US20111.

PR 29-OCT-1999; 99US-0162506.

PR 30-NOV-1999; 99WO-US28313.

PR 02-DEC-1999; 99WO-US28551.

PR 16-DEC-1999; 99WO-US30095.

PR 05-JAN-2000; 2000WO-US00219.

PR 06-JAN-2000; 2000WO-US00376.

XX

Human hydrophobic

Human secreted pro

DNA encoding human

cDNA sequence #376

Human immune/haema

Nucleotide sequenc

CADHP-8 coding seq

Human cDNA encodin

DNA encoding novel

Human neuroblastom

Human breast cance

Human immune/haema

Human ORFX ORF384

Human hydrophobic

Human gene signatu

Human neuroblastom

8642Int genomic DN

Human prostate can

Human secreted pro

Human uteroglobin

Nucleotide sequenc

Human cDNA #220 di

Aspergillus fumiga

Human secreted pro

Human secreted pro

Human ovarian anti

Human secreted pro

Human clone cg3852

Human polynucleoti

Human polynucleoti

Mouse lTRP-4 long

Human cDNA encodin

cDNA encoding nove

Human colon cancer

cDNA encoding for

cDNA encoding huma

PA (GETH) GENENTECH INC.
 XX Baker KP, Boerslein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;
 PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KU;
 PI Pan J, Peoni NF, Roy MA, Smith V, Stewart RA, Tumas D;
 PI Watanabe CK, Williams PM, Wood WI;
 DR WPI, 2001-071395/08.
 XX Secreted and transmembrane proteins and nucleic acids designated PRO,
 PT useful as hybridization probes, in chromosome and gene mapping and gene
 therapy -
 XX
 PS Claim 2; Fig 83; 787bp; English.
 XX The present invention relates to secreted and transmembrane proteins.
 CC These proteins and the DNA encoding them may be used as hybridization
 CC probes, in chromosome and gene mapping and in the generation of
 CC anti-sense RNA and DNA. They may also be used to generate either
 CC transgenic animals or knockout animals which are in turn useful for
 CC development and screening of therapeutically useful reagents.
 CC The nucleic acids may also be used in gene therapy.
 XX
 XX Sequence 2044 BP; 394 A; 678 C; 576 G; 396 T; 0 other;
 SQ
 Query Match 100.0%; Score 2044; DB 22; Length 2044;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2044; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 661 GCAACATCCAACTGTGTGTGTAACCATCTCTCCAGATAGTAAAAATACAGGCT 720
 DB 661 GCAACATCCAACTGTGTGTGTAACCATCTCTCCAGATAGTAAAAATACAGGCT 720
 QY 721 GCAGCCCTGGCTAAGGAGTGTGCTGATCTGTAAATCTCTGCTCCCTCATCTGCTC 780
 DB 721 GCAGCCCTGGCTAAGGAGTGTGCTGATCTGTAAATCTCTGCTCCCTCATCTGCTC 780
 QY 781 CTGCTTACAAAGAAAGGACAGGAGCTCCAAACGCGCTGACCAAGAGTGTGCGGATG 840
 DB 781 CTGCTTACAAAGAAAGGACAGGAGCTCCAAACGCGCTGACCAAGAGTGTGCGGATG 840
 QY 841 GACAGCAATTTAAGGGAATTGAAAACCCCGCTTTGAAGCTTACCACTGCCCCAGGG 900
 DB 841 GACAGCAATTTAAGGGAATTGAAAACCCCGCTTTGAAGCTTACCACTGCCCCAGGG 900
 QY 901 ATACCCGAGGCAAAAGTCAAGGCAACCCCTGTCTTAATGTGAGCCAGGAGGACCTTTGAG 960
 DB 901 ATACCCGAGGCAAAAGTCAAGGCAACCCCTGTCTTAATGTGAGCCAGGAGGACCTTTGAG 960
 QY 961 TCTGAGCGGATCTGCTTTTCGAGCCAGCAACCCCTGTCTCTCCAGGCCCCGAGAC 1020
 DB 961 TCTGAGCGGATCTGCTTTTCGAGCCAGCAACCCCTGTCTCTCCAGGCCCCGAGAC 1020
 QY 1021 GTCTTTTCCCATCCCTGAAACCTGTCTCTGATCTTCCAAACTTTGAAGTTCATAGCCC 1080
 DB 1021 GTCTTTTCCCATCCCTGAAACCTGTCTCTGATCTTCCAAACTTTGAAGTTCATAGCCC 1080
 QY 1081 AGCTGGGGGACAGTGGGCTGTGTGTGCTGGGCTGTGGGAGTTCATTTGAGCCAGGAGCT 1140
 DB 1081 AGCTGGGGGACAGTGGGCTGTGTGTGCTGGGCTGTGGGAGTTCATTTGAGCCAGGAGCT 1140
 QY 1141 GACTCTGTGAGTGGCTCTCTTGTGCTGTGAGCTCTGTCTCTCTCTCTCTCTCTCTCTCT 1200
 DB 1141 GACTCTGTGAGTGGCTCTCTTGTGCTGTGAGCTCTGTCTCTCTCTCTCTCTCTCTCTCT 1200
 QY 1201 GATACGTGACATCTCCAGAAAGCCAGCCCTCAACCCCTCTGATGTCTAATGTGGAGATGC 1260
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 DB 1261 TGAGCGGCTAGCCCTGTCTCAAGAGATTTTGGGGTCTGAGATTTCTCCCTAGAGACT 1320
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 DB 1321 GAAATTCACAGTACAGATGCAATGACTTACATCTTAAGAGTCTCAGAAAGTCCAG 1380
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 DB 1381 CCTTCAGAGCTCTGCTTCTGAGACATGAGCTTTGGGATGTGGACATCAATGAGGACA 1440
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 DB 1441 AGATGACACTGGGCAACCCCTCCAGAGCAACAGACAGGAGCAAGGTGAGAGACTTCTC 1500
 QY 1501 CCCCGTGGCCGCTTGTGCTCCCGTGTGTGCTGAGGCTGTCTCTGTGCACTTCTCTC 1560
 DB 1501 CCCCGTGGCCGCTTGTGCTCCCGTGTGTGCTGAGGCTGTCTCTGTGCACTTCTCTC 1560
 QY 1561 TTTGTACACAGTGGCTTGTGGGGCAAGGCTGTGCTGCTCAATGAGCAATGCACTTCTCC 1620
 DB 1561 TTTGTACACAGTGGCTTGTGGGGCAAGGCTGTGCTGCTCAATGAGCAATGCACTTCTCC 1620
 QY 1621 CAGGCTCTCTTACACAGAGTTTCTGTAAGATCTGTCAACAGGTTAAGTCAATCTGGGG 1680
 DB 1621 CAGGCTCTCTTACACAGAGTTTCTGTAAGATCTGTCAACAGGTTAAGTCAATCTGGGG 1680
 QY 1681 CTTTCACTGCTGTGATTCAGTCTCCAGAGCTGTGTGTCTCCGAAACGGGAAATGATAT 1740
 DB 1681 CTTTCACTGCTGTGATTCAGTCTCCAGAGCTGTGTGTCTCCGAAACGGGAAATGATAT 1740
 QY 1741 TGGGCAATGTGTGCTCCGTGAGCAATGTGTCTTGGGCAATCTGAGGCAATGAGAT 1800

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Db      1741 TGGGGCATGGTGGCTTCCTGAGCAATGCTGTCTTGGGCAATTGAGCCACAGACGAT 1800
Qy      1801 GTTGGCCCCACCACTGAGAGTGTGTCTGAGGAGGTGGGCTTCTTGGAGAGTGA 1860
Db      1801 GTTGGCCCCACCACTGAGAGTGTGTCTGAGGAGGTGGGCTTCTTGGAGAGTGA 1860
Qy      1861 GTGAGAGGGGCACTGCTGCCCCCGCTCCCATCTCCCACTGCTCAAGCGGGG 1920
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Db      1921 CCATTGCAAGGGGTGCAACAAATGTCTGTCCACCCCTGGAGCACTTGTGATGAAGCG 1980
Qy      1981 GGATGCTATTAAAACTACATGGGGAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2040
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Qy      2041 AAGA 2044
Db      2041 AAGA 2044

RESULT 2
ABL95659
ID      ABL95659 standard; cDNA; 2044 BP.
XX
AC      ABL95659;
XX
DT      19-JUL-2002 (first entry)
DE      Human angiogenesis related CDNA PRO1412 SEQ ID NO: 197.
XX
XX      Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
KW      atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
KW      cardiant; cytostatic; antiangiogenic; hypotensive; vulnerary;
KW      antitartaric; gene; ss.
OS      Homo sapiens.
XX
PN      WO200208284-A2.
XX
PD      31-JAN-2002.
XX
PF      09-JUL-2001; 2001WO-US21735.
XX
PR      20-JUL-2000; 2000US-219556P.
PR      25-JUL-2000; 2000US-220624P.
PR      28-JUL-2000; 2000WO-US20710.
PR      02-AUG-2000; 2000US-222695P.
PR      17-AUG-2000; 2000US-0643657.
PR      23-AUG-2000; 2000WO-US23552.
PR      24-AUG-2000; 2000WO-US23528.
PR      07-SEP-2000; 2000US-230978P.
PR      15-SEP-2000; 2000US-000000P.
PR      18-SEP-2000; 2000US-0664610.
PR      18-SEP-2000; 2000US-0665350.
PR      24-OCT-2000; 2000US-242922P.
PR      08-NOV-2000; 2000US-0709238.
PR      08-NOV-2000; 2000WO-US30952.
PR      10-NOV-2000; 2000WO-US30873.
PR      01-DEC-2000; 2000WO-US32678.
PR      20-DEC-2000; 2000US-0747259.
PR      20-DEC-2000; 2000WO-US34956.
PR      22-JAN-2001; 2001US-0767609.
PR      28-FEB-2001; 2001US-0796498.
PR      01-MAR-2001; 2001WO-US06520.
PR      09-MAR-2001; 2001US-0802706.
PR      14-MAR-2001; 2001US-0808689.
PR      22-MAR-2001; 2001US-0816744.

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PR      05-APR-2001; 2001US-0828366.
PR      10-MAY-2001; 2001US-0854208.
PR      10-MAY-2001; 2001US-0854280.
PR      25-MAY-2001; 2001US-0866028.
PR      25-MAY-2001; 2001US-0866034.
PR      25-MAY-2001; 2001WO-US17092.
PR      30-MAY-2001; 2001US-0870574.
PR      30-MAY-2001; 2001WO-US17443.
PR      01-JUN-2001; 2001WO-US17800.
PR      20-JUN-2001; 2001WO-US19692.
PR      28-JUN-2001; 2001WO-US00000.
XX
XX      (GERT) GENENTECH INC.
PA      (BAKE) BAKER K P.
PA      (FERR) FERRARA N.
PA      (GERB) GERBER H.
PA      (GERR) GERRITSEN M E.
PA      (GODD) GODDARD A.
PA      (GODD) GODDARD P J.
PA      (GURN) GURNEY A L.
PA      (HILL) HILLAN K J.
PA      (MARS) MARSTERS S A.
PA      (PANT) PAN J.
PA      (PAON) PAONI N F.
PA      (STEP) STEPHAN J F.
PA      (WATA) WATANABE C K.
PA      (WILL) WILLIAMS P M.
PA      (WOOD) WOOD W I.
XX
PI      Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A,
PI      Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF,
PI      Stephan JF, Watanabe CK, Williams PM, Wood WL, Ye W;
PI      WPI; 2002-171999/22.
XX
DR      P-PSDB; ABB95521.
XX
XX      One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT      useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT      infarction), endothelial or angiogenic disorders in a mammal -
XX
XX      Claim 1; Fig 197; 567pp; English.
XX
PS      The present invention provides the protein and coding sequences of human
CC      PRO proteins. These are useful for treating or diagnosing a
CC      cardiovascular, endothelial or angiogenic disorder, including cardiac
CC      hypertrophy, trauma, cancer, age-related macular degeneration,
CC      atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
CC      angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
CC      angiogenesis (such as breast carcinoma and liver carcinoma) and wound
CC      healing. The present sequence is a coding sequence of the invention.
XX
XX      Sequence 2044 BP; 394 A; 678 C; 576 G; 396 T; 0 other;
XX
XX      Query Match      100.0%; Score 2044; DB 24; Length 2044;
XX      Best Local Similarity 100.0%; Pred. No. 0;
XX      Matches 2044; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Qy      1 GGGGGGGGGTGCCTGAGAGAGCGCTGGGGGGCGCCCGAGGAGCTACCTGGTCAGATC 60
Db      1 GGGGGGGGGTGCCTGAGAGAGCGCTGGGGGGCGCCCGAGGAGCTACCTGGTCAGATC 60
Qy      61 AGTCGCGGAGGAGCTTCCCGCGCGCGCGCTCCCGCGCTCCCGGACAGAGATTTC 120
Db      61 AGTCGCGGAGGAGCTTCCCGCGCGCGCGCTCCCGCGCTCCCGGACAGAGATTTC 120
Qy      121 CTCCTGCGGCTCCGAGCGGAGCATGGGCGTCCCAAGGCGCTTGAAGGCGGAGCTGGCGGC 180
Db      121 CTCCTGCGGCTCCGAGCGGAGCATGGGCGTCCCAAGGCGCTTGAAGGCGGAGCTGGCGGC 180
Qy      181 TGGGATCCCTGCTCTTCTTCTGAGTGGTCCGAGTCCGAGTCCGAGCTTC 240
Db      181 TGGGATCCCTGCTCTTCTTCTGAGTGGTCCGAGTCCGAGTCCGAGCTTC 240

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[illegible]

Db	1321	GAATTCACGAGCTACAGATGCCAAATGACTTACATCTTAAAGAAGTCTCAGAACTGCAG	1380
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Db	1381	CCCTTCAGCAGCTCTCGTTCTGAGACATGAGCCTTGGGAATGTGGCAGCATCAGTGGGACA	1440
Qy	1441	AGATGGAACAATGGGGCCACCCCTCCGAGGACAACAACAAGGGACAAGGTGAGAGAGACTTCTC	1500
Db	1441	AGATGGAACAATGGGGCCACCCCTCCGAGGACAACAACAAGGGACAAGGTGAGAGAGACTTCTC	1500
Qy	1501	CCCCGTGGCCGCTCTGGAGCTCCCGGTTTTCGCCGAGGCTGCTCTTCTGTGAGACTTCTCTC	1560
Db	1501	CCCCGTGGCCGCTCTGGAGCTCCCGGTTTTCGCCGAGGCTGCTCTTCTGTGAGACTTCTCTC	1560
Qy	1561	TTTGTACCAACAGTGGCTCTTGGGGGACAGGCTGCTGCTGCCACTGGCCATCGCCACTTTC	1620
Db	1561	TTTGTACCAACAGTGGCTCTTGGGGGACAGGCTGCTGCTGCCACTGGCCATCGCCACTTTC	1620
Qy	1621	CAGTGTGCTCTCTACACAGAGATTTCTGGAAGATCTGCACAGGTAAATGTCAAATCTGGGG	1680
Db	1621	CAGTGTGCTCTCTACACAGAGATTTCTGGAAGATCTGCACAGGTAAATGTCAAATCTGGGG	1680
Qy	1681	CTTCACATGCTGCAATTCACAGTCCCGAGACTTGTGTGTCTCCGAAAAGGGAAGTACATAT	1740
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Qy	1741	TGGGGCAATGGTGGCTTCCTCGTAGCAAAATGGTGTCTTGGGCAATCTGAGGCCAGACACAGAT	1800
Db	1741	TGGGGCAATGGTGGCTTCCTCGTAGCAAAATGGTGTCTTGGGCAATCTGAGGCCAGACACAGAT	1800
Qy	1801	GTTGCCCCCAACCCACTGAGAGATGTGTGTCTGAGGAGAGTGGGTGGGGCTTCTTGGGAAGGTGA	1860
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Qy	1861	GTCGAGAGAGGGGCAACTGCCCCCGGCTCCGCTCCCACTCCCTACTCCCACTGCTCAGCGGGGG	1920
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Db	1921	CCATTGCAAGGGGTGCCACACAAATGTCTTGTGCCACCTGGGACACTTCTGAGTATGAAGCG	1980
Qy	1981	GGATGCTATTAAAAAATCACTACATGCGGGAAAAAATTTTTTTTTTTTTTTTTTTTTTTT	2040
Db	1981	GGATGCTATTAAAAAATCACTACATGCGGGAAAAAATTTTTTTTTTTTTTTTTTTTTTTT	2040
Qy	2041	AAGA 2044	
Db	2041	AAGA 2044	
RESULT 3			
ID	ABL88170	standard; cDNA; 2044 BP.	
AC	ABL88170;		
DT	16-MAY-2002	(first entry)	
DE	Human PRO1412 cDNA sequence SFG ID NO:197.		
KW	Human; angiogenesis; cardiac; cytosolic; antiangiogenic; hypotensive;		
KW	vulneray; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;		
KW	gene therapy; cardiovascular disorder; endothelial disorder; cancer;		
KW	angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;		
KW	age-related macular degeneration; arterial restenosis; angina;		
KW	rheumatoid arthritis; myocardial infarction; thrombophlebitis;		
KW	lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;		
KW	wound healing; chromosome mapping; gene mapping; gene; ss.		
OS	Homo sapiens.		
XX			


```

QY 1021 GTCCTTCCATCCCTGAGCCCTGTCCTGACCTCCAACTTTGAGTCACTAGCCC 1080
DB 1021 GTCCTTCCATCCCTGAGCCCTGTCCTGACCTCCAACTTTGAGTCACTAGCCC 1080
QY 1081 AGCTGGGGAGAGTGGGCTGTGTGGCTGGGCTGGGAGAGTGCATTTGAGCCAGGCT 1140
DB 1081 AGCTGGGGAGAGTGGGCTGTGTGGCTGGGCTGGGAGAGTGCATTTGAGCCAGGCT 1140
QY 1141 GGCCTGTGAGAGGCTCCTTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1200
DB 1141 GGCCTGTGAGAGGCTCCTTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1200
QY 1201 GATACGTGACATCCAGAGAGCCAGCCCTCAACCCCTCTGAGATGCTAATGAGGATGC 1260
DB 1201 GATACGTGACATCCAGAGAGCCAGCCCTCAACCCCTCTGAGATGCTAATGAGGATGC 1260
QY 1261 TGGAGGGCTCAGCCCTGTTCCAGAGATTTTGGGGTGTGAGATTTCTCCCTAGAGACT 1320
DB 1261 TGGAGGGCTCAGCCCTGTTCCAGAGATTTTGGGGTGTGAGATTTCTCCCTAGAGACT 1320
QY 1321 GAAATTCACAGCTACAGATGCAATGACTTAATGAGATCTCAGAACCTCCAG 1380
DB 1321 GAAATTCACAGCTACAGATGCAATGACTTAATGAGATCTCAGAACCTCCAG 1380
QY 1381 CCCTTCAGAGCTCTGCTTCTGAGACATGAGCCTTGGAGTGTGGACATCAGTGGAGCA 1440
DB 1381 CCCTTCAGAGCTCTGCTTCTGAGACATGAGCCTTGGAGTGTGGACATCAGTGGAGCA 1440
QY 1441 AGATGACATCTGGGCTCAGCCCTCCAGAGCAGAGACAGAGGAGAGAGAGAGAGAGAG 1500
DB 1441 AGATGACATCTGGGCTCAGCCCTCCAGAGCAGAGACAGAGGAGAGAGAGAGAGAGAG 1500
QY 1501 CCCCGTGGGCTGCTGGCTCCCGCTTTTGGCCGAGGCTGCTTCTGACAGCTTCTC 1560
DB 1501 CCCCGTGGGCTGCTGGCTCCCGCTTTTGGCCGAGGCTGCTTCTGACAGCTTCTC 1560
QY 1561 TTTGTACCAAGTGGCTGAGGGGCAAGGCTGCTGAGCCTGAGCAGTGGCAGCTTCCC 1620
DB 1561 TTTGTACCAAGTGGCTGAGGGGCAAGGCTGCTGAGCCTGAGCAGTGGCAGCTTCCC 1620
QY 1621 CAGCTGCTCTTCAACAGAGTCTTCTGAGAGATCTTCAACAGGTTAAGTCAATCTGGG 1680
DB 1621 CAGCTGCTCTTCAACAGAGTCTTCTGAGAGATCTTCAACAGGTTAAGTCAATCTGGG 1680
QY 1681 CTTTCACTGCTGATTCAGTCCCAAGCTTGTGTGCTCCGAAACGGGAAGTACATAT 1740
DB 1681 CTTTCACTGCTGATTCAGTCCCAAGCTTGTGTGCTCCGAAACGGGAAGTACATAT 1740
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DB 1741 TGGGGCATGTGCTGCTCCGAGCAAAATGCTGTCTTGGGCAATCTGAGGCAGAGACAT 1800
QY 1801 GTTGGCCCCCACTGAGAGATGTGTGCTGAGAGAGTGGGCTTCTTGGGAAGTGA 1860
DB 1801 GTTGGCCCCCACTGAGAGATGTGTGCTGAGAGAGTGGGCTTCTTGGGAAGTGA 1860
QY 1861 GTGGAAGGGGCACTGGCCCCCGGCTTCCCAATCCCTACTCCCACTGCTCAGCCGGG 1920
DB 1861 GTGGAAGGGGCACTGGCCCCCGGCTTCCCAATCCCTACTCCCACTGCTCAGCCGGG 1920
QY 1921 CCAATTGCAAGGTGCAACACATGTCTTGTCAACCTTGGGACATCTTGAATGAAGCG 1980
DB 1921 CCAATTGCAAGGTGCAACACATGTCTTGTCAACCTTGGGACATCTTGAATGAAGCG 1980
QY 1981 GGAATGCTATTAATAAATCAATGAGGAGAAAAAATTAATTAATTAATTAATTAATTA 2040
DB 1981 GGAATGCTATTAATAAATCAATGAGGAGAAAAAATTAATTAATTAATTAATTAATTA 2040
QY 2041 AAGA 2044
DB 2041 AAGA 2044

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RESULT 4
AAA37063
ID AAA37063 standard; cDNA; 2043 BP.
XX
AC AAA37063;
XX
DT 08-AUG-2000 (first entry)
XX
DE Human PRO1412 (UN0730) cDNA sequence SEQ ID NO:139.
XX
KW Human; Pro polypeptide; membrane bound protein; receptor; diagnosis;
KW transmembrane; secretion; immunoadhesion; pharmaceutical; screening;
KW ss.
XX
OS Homo sapiens.
XX
PN WO200012708-A2.
XX
PD 09-MAR-2000.
XX
PF 01-SEP-1999; 99WO-US20111.
XX
PR 01-SEP-1998; 98US-0098716.
PR 01-SEP-1998; 98US-0098749.
PR 01-SEP-1998; 98US-0098750.
PR 02-SEP-1998; 98US-0098803.
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PR 24-SEP-1998; 98US-0101915.
PR 24-SEP-1998; 98US-0101916.

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PR	29-SEP-1998;	98US-0102207
PR	29-SEP-1998;	98US-0102240
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PR	27-OCT-1998;	98US-0105682
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PR	28-OCT-1998;	98US-0106029
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PR	18-NOV-1998;	98US-0108852
PR	18-NOV-1998;	98US-0108858
PR	18-NOV-1998;	98US-0108904
XX		
(GETH) GENENTECH INC.		

XX	Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WT;
PI	WPI; 2000-237871/20.
DR	P-PEDB; AA999381.
XX	
PS	New mammalian DNA sequences encoding transmembrane, receptor or
PT	secreted PRO polypeptides, useful for screening of potential peptide or
PT	small molecule inhibitors of the relevant receptor/ligand interactions
CC	Claim 2; Fig 83; 773bp; English.
CC	AAA37022 to AAA37144 encode the new isolated human transmembrane,
CC	receptor or secreted PRO polypeptides given in AA999340 to AA999462. The
CC	transmembrane and receptor PRO proteins can be used for screening of
CC	potential peptide or small molecule inhibitors of the relevant
CC	receptor/ligand interactions. The polypeptides and nucleotide sequences
CC	encoding them have various industrial applications, including uses as
CC	pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent
CC	PCR primers and hybridisation probes used in the isolation of the PRO
CC	polypeptides from the present invention.
XX	
SQ	Sequence 2043 BP; 393 A; 678 C; 576 G; 396 T; 0 other;
	Query Match 99.9%; Score 2041; DB 21; Length 2043;
	Best Local Similarity 100.0%; Pred. No. 0;
	Matches 2041; Conservative 0; Mismatches 0; Indels 0; Gaps 0
OY	1 GGGGCGGGGTCCCTGGAGACAGGCGCTTGGGGCGGCCCGGAGGCTCATTGCTCGACTTC 60
DB	1 GGGGCGGGGTCTCTGGAGACAGGCGCTTGGGGCGGCCCGGAGGCTCATTGCTCGACTTC 60
OY	61 AGTCGCGGGAAGGATCCCCGCGCGCGCGCGGTCGCCCGGCTCCCGGACCAAGAAGTTCC 120
DB	61 AGTCGCGGGAAGGATCCCCGCGCGCGCGCGGTCGCCCGGCTCCCGGACCAAGAAGTTCC 120
OY	121 CTTCGCGGTCGACAGGCGACAATGGGCGATCCCACAGGCGCTTGAGAGCGCGCACTTGACGC 180
DB	121 CTTCGCGGTCGACAGGCGACAATGGGCGATCCCACAGGCGCTTGAGAGCGCGCACTTGACGC 180
OY	181 TGGGGATCCCTGCTCTTGGCTCTCTTCTGGGTGGCTGCTTAGGTCCGGTGGCAGGCTTC 240
DB	181 TGGGGATCCCTGCTCTTGGCTCTCTTCTGGGTGGCTGCTTAGGTCCGGTGGCAGGCTTC 240
OY	241 AAGGTGCGCACGCGGTATTCCTGTATGTCGTGCCGAGGGGACAAAGTCAACCTCCACC 300
DB	241 AAGGTGCGCACGCGGTATTCCTGTATGTCGTGCCGAGGGGACAAAGTCAACCTCCACC 300
OY	301 TGCAAGGCTCTTGGGCGCTGTGGACAAAGGCGACAGATGTACCTTCTAACAAGATGTATAC 360
DB	301 TGCAAGGCTCTTGGGCGCTGTGGACAAAGGCGACAGATGTACCTTCTAACAAGATGTATAC 360
OY	361 CGCAGCTGAGGGGGGAGGTGACACTGTCTCAGAGCGCGGCGCATTCGCAACTCAGC 420
DB	361 CGCAGCTGAGGGGGGAGGTGACACTGTCTCAGAGCGCGGCGCATTCGCAACTCAGC 420
OY	421 TTCCAGGACCTTCACTGTGACCAATGSAAGGCCAACAGGCTGCACAACAAGGCCACGACCTG 480
DB	421 TTCCAGGACCTTCACTGTGACCAATGSAAGGCCAACAGGCTGCACAACAAGGCCACGACCTG 480
OY	481 GCTCAGCGCACAGGCGTGAAGTGGGCTTCGACCAACATGGCACTTCTCCATCACAATG 540
DB	481 GCTCAGCGCGCACAGGCGTGAAGTGGGCTTCGACCAACATGGCACTTCTCCATCACAATG 540
OY	541 CGCAACTGACCTGTGATAGCGGCTCTTACTGCTGCTGTGTGTGATCAAGGCAC 600
DB	541 CGCAACTGACCTGTGATAGCGGCTCTTACTGCTGCTGTGTGTGATCAAGGCAC 600
OY	601 CACCACTCGAGGACAGGGTCCATAGTGTGCATGAGCTGCAGGTCACAAGCAAAGAT 660
DB	601 CACCACTCGAGGACAGGGTCCATAGTGTGCATGAGCTGCAGGTCACAAGCAAAGAT 660
OY	661 GCACCATCCAATGTGTGTGTATCCCATCTCTTCCAGATATGTAAAAATCAAGGCT 720
DB	661 GCACCATCCAATGTGTGTGTATCCCATCTCTTCCAGATATGTAAAAATCAAGGCT 720


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Db      ||||| 661 GCACCATCAACGTGTGTGTGATCCATCTCTCCAGATGAGAAACATCAAGCT 720
Qy      ||||| 721 GCAGCCCTGAGCTAGGGGCTGATCGTAGGAATCTCTGCTCTCCCTCATCTGCTC 780
Db      ||||| 721 GCAGCCCTGAGCTAGGGGCTGATCGTAGGAATCTCTGCTCTCCCTCATCTGCTC 780
Qy      ||||| 781 CTGCTCTACAGCAAGCAAGGCAAGGCAAGCTTCAACCGCGCTGCGCCAGAGCTGTCGAG 840
Db      ||||| 781 CTGCTCTACAGCAAGGCAAGGCAAGGCAAGCTTCAACCGCGCTGCGCCAGAGCTGTCGAG 840
Qy      ||||| 841 GACAGCAACATTTCAAGGATTTGAAAAACCCCGCTTTGAAGCTTCAACCTGCGCCAGGG 900
Db      ||||| 841 GACAGCAACATTTCAAGGATTTGAAAAACCCCGCTTTGAAGCTTCAACCTGCGCCAGGG 900
Qy      ||||| 901 ATACCCGAGGCAAGTCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGG 960
Db      ||||| 901 ATACCCGAGGCAAGTCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGG 960
Qy      ||||| 961 TCTGGGCGGCAATCTGCTTTCGAGGCGCAAGCAACCCCTGCTCTCTCAAGGCGCGGAG 1020
Db      ||||| 961 TCTGGGCGGCAATCTGCTTTCGAGGCGCAAGCAACCCCTGCTCTCTCAAGGCGCGGAG 1020
Qy      ||||| 1021 GTCTTCTTCCATCTCTGAGACCTCTGTCTCTGACTCTCTCAAACTTTGAGGTCATTA 1080
Db      ||||| 1021 GTCTTCTTCCATCTCTGAGACCTCTGTCTCTGACTCTCTCAAACTTTGAGGTCATTA 1080
Qy      ||||| 1081 AGCTGGGGGAGAGTGGGCTGTTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1140
Db      ||||| 1081 AGCTGGGGGAGAGTGGGCTGTTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1140
Qy      ||||| 1141 GGGCTGTGAGTGGGCTCTTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1200
Db      ||||| 1141 GGGCTGTGAGTGGGCTCTTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCT 1200
Qy      ||||| 1201 GATGCTGTGACATCCAGAGGCGCAAGGCGCTCTCAACCCCTCTGAGATGCTA 1260
Db      ||||| 1201 GATGCTGTGACATCCAGAGGCGCAAGGCGCTCTCAACCCCTCTGAGATGCTA 1260
Qy      ||||| 1261 TGGAGGGCTGAGGCGCTGTTCCAGAGATTTGGGGGCTGAGATTTCTCCCTAGAG 1320
Db      ||||| 1261 TGGAGGGCTGAGGCGCTGTTCCAGAGATTTGGGGGCTGAGATTTCTCCCTAGAG 1320
Qy      ||||| 1321 GAAATTTCAACAGCTTACAGATGCAATGACTTACATCTTAAAGTCTTCAGAAC 1380
Db      ||||| 1321 GAAATTTCAACAGCTTACAGATGCAATGACTTACATCTTAAAGTCTTCAGAAC 1380
Qy      ||||| 1381 CCCTTCAGAGCTCTGCTTCTGAGATGAGCTTGGGATGTCGAGATGTCGAG 1440
Db      ||||| 1381 CCCTTCAGAGCTCTGCTTCTGAGATGAGCTTGGGATGTCGAGATGTCGAG 1440
Qy      ||||| 1441 AGATGAGCACTGGGCAAGGCTTCCAGAGCAAGGCAAGGCAAGGCAAGGCAAGG 1500
Db      ||||| 1441 AGATGAGCACTGGGCAAGGCTTCCAGAGCAAGGCAAGGCAAGGCAAGGCAAGG 1500
Qy      ||||| 1501 CCCCGTGGCGGCTTGGCTCTCCCGCTTTTGGCCGAGGCTGCTCTTCTGCAAG 1560
Db      ||||| 1501 CCCCGTGGCGGCTTGGCTCTCCCGCTTTTGGCCGAGGCTGCTCTTCTGCAAG 1560
Qy      ||||| 1561 TTTGTACACAGTGGCTTGGGGGCAAGGCTTGGCCATGTCGACCTTCTCC 1620
Db      ||||| 1561 TTTGTACACAGTGGCTTGGGGGCAAGGCTTGGCCATGTCGACCTTCTCC 1620
Qy      ||||| 1621 GAGCTGCTCTTCAACAGAGTCTTCTGAGATCTTCAACAGGTTAAGTCAATCT 1680
Db      ||||| 1621 GAGCTGCTCTTCAACAGAGTCTTCTGAGATCTTCAACAGGTTAAGTCAATCT 1680
Qy      ||||| 1681 CTTCACCTGCTGCTTCAAGTCTTCCAGAGCTTGGGCTTCCGAAACGGGAAGT 1740
Db      ||||| 1681 CTTCACCTGCTGCTTCAAGTCTTCCAGAGCTTGGGCTTCCGAAACGGGAAGT 1740
Qy      ||||| 1741 TGGGGCATGTGGCTCTCGTGAAGAAATGTGCTTGGGCAATCTGAGGCGAGAG 1800

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Db      ||||| 1741 TGGGGCATGTGGCTCTCGTGAAGAAATGTGCTTGGGCAATCTGAGGCGAGAGAT 1800
Qy      ||||| 1801 GTTGCCCAACCACTGAGAGTGTGCTGAGAGAGTGTGGGCTTCTGGAGAGTGA 1860
Db      ||||| 1801 GTTGCCCAACCACTGAGAGTGTGCTGAGAGAGTGTGGGCTTCTGGAGAGTGA 1860
Qy      ||||| 1861 GTGAGAGGGGCACTGCTCCCGGCTTCCCTCACTCTCTCACTGCTGAGCGCGG 1920
Db      ||||| 1861 GTGAGAGGGGCACTGCTCCCGGCTTCCCTCACTCTCTCACTGCTGAGCGCGG 1920
Qy      ||||| 1921 CCATTCAGAGGAGGCAACATGCTTGTCAACCTTGGGACACTTCTGAGTGAAGCG 1980
Db      ||||| 1921 CCATTCAGAGGAGGCAACATGCTTGTCAACCTTGGGACACTTCTGAGTGAAGCG 1980
Qy      ||||| 1981 GATGCTATTTAAACTCAATGGGAAAAA 2040
Db      ||||| 1981 GATGCTATTTAAACTCAATGGGAAAAA 2040
Qy      ||||| 2041 A 2041
Db      ||||| 2041 A 2041

RESULT 5
ABK3622
ID ABK3622 standard; cDNA; 2043 BP.
XX
AC ABK3622;
XX
DE 08-MAY-2002 (first entry)
XX
OS cDNA encoding human PRO protein, Seg ID No 173.
XX
KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
KW breast cancer; prostate tumour; rectal tumour; liver tumour;
KW pericyte cell proliferation; chondrocyte cell proliferation;
KW tumour necrosis factor-alpha; gene; ss.
XX
OS Homo sapiens.
XX
PN MO200208288-A2.
XX
PD 31-JAN-2002.
XX
PF 29-JUN-2001; 2001MO-US21066.
XX
PR 20-JUL-2000; 2000US-219556P.
PR 25-JUL-2000; 2000US-220585P.
PR 25-JUL-2000; 2000US-220605P.
PR 25-JUL-2000; 2000US-220607P.
PR 25-JUL-2000; 2000US-220624P.
PR 25-JUL-2000; 2000US-220638P.
PR 25-JUL-2000; 2000US-220664P.
PR 25-JUL-2000; 2000US-220666P.
PR 26-JUL-2000; 2000US-220893P.
PR 28-JUL-2000; 2000MO-US20710.
PR 28-JUL-2000; 2000MO-US20712.
PR 23-AUG-2000; 2000MO-US23328.
PR 24-AUG-2000; 2000MO-US23328.
PR 15-SEP-2000; 2000US-000000P.
PR 10-NOV-2000; 2000MO-US30873.
PR 28-NOV-2000; 2000US-253646P.
PR 01-DEC-2000; 2000MO-US32678.
PR 20-DEC-2000; 2000US-0747259.
PR 20-DEC-2000; 2000MO-US34956.
PR 28-FEB-2001; 2001MO-US06520.
PR 10-MAY-2001; 2001US-0854280.
PR 25-MAY-2001; 2001MO-US17092.
XX
XX (GENETH ) GENENTECH INC.
XX
XX Baker KP, Desnoyers L, Gerlitsen ME, Goddard A, Godowski PJ,
XX Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI,

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DR MPI: 2002-172001/22.
DR P-PSDB; AUBS3678.

PT One hundred and twenty two nucleic acids encoding PRO polypeptides,
PT useful for treating a PRO related disorder and for diagnosing tumours
PT such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal
PT tumour or liver tumour -

XX Claim 2; Figure 173; 359pp; English.

XX The invention relates to one hundred and twenty two nucleic acids
XX encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
XX encode human secreted proteins. The PRO nucleic acids, polypeptides,
XX agonists and antagonists are useful for treating a PRO related disorder.
XX The PRO polypeptides are useful for diagnosing tumours, especially lung
XX cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
XX liver tumour. The PRO polypeptides are useful for stimulating the
XX proliferation of, or gene expression, in pericyte cells, for stimulating
XX the proliferation or differentiation of chondrocyte cells, for
XX stimulating the release of tumour necrosis factor-alpha from human blood,
XX for stimulating or inhibiting the proliferation of normal human dermal
XX fibroblast cells. The PRO polypeptide may also be used as molecular
XX weight markers and for tissue typing. The PRO nucleic acids have
XX applications in molecular biology, including use as hybridisation probes,
XX and in chromosome and gene mapping. ABR3536-ABR3657 represent human
XX PRO protein coding sequences of the invention.

SQ Sequence 2043 BP; 394 A; 678 C; 575 G; 396 T; 0 other;

Query Match 99.4%; Score 2032; DB 24; Length 2043;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 1; Gaps 1;

DB 1 GGGGGGGGCTGCTGAGAGACGGGCTGAGGCGCCCGGAGCGCTACCTGCTGCACTC 60
QY 1 GGGGGGGGCTGCTGAGAGACGGGCTGAGGCGCCCGGAGCGCTACCTGCTGCACTC 60
DB 1 GGGGGGGGCTGCTGAGAGACGGGCTGAGGCGCCCGGAGCGCTACCTGCTGCACTC 60
QY 61 AGTCGGGAGGCTTCCCGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 AGTCGGGAGGCTTCCCGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CTTCTGGGCTCCGAGCGGACATAGGCGCTCCCGAGGCGCTGAGGCGCGGAGCTGCGC 180
DB 121 CTTCTGGGCTCCGAGCGGACATAGGCGCTCCCGAGGCGCTGAGGCGCGGAGCTGCGC 180
QY 181 TGGGAGTCCCTGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 181 TGGGAGTCCCTGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 241 AAGGTCGACGACCGCTATTCCTGTATGTCGTGTCGAGGAGGAGCAAGCTCACTCACC 300
DB 241 AAGGTCGACGACCGCTATTCCTGTATGTCGTGTCGAGGAGGAGCAAGCTCACTCACC 300
QY 301 TGGGAGCTTTGGGCGCTGCTGAGCAAAAGGACAGATGTAAGCTTCAAGAGCTGTAC 360
DB 301 TGGGAGCTTTGGGCGCTGCTGAGCAAAAGGACAGATGTAAGCTTCAAGAGCTGTAC 360
QY 361 CGCAGCTGAGGAGGCGAGGCTGAGACCTGCTGAGAGCGCGGCGGAGCTGCGCACTCAG 420
DB 361 CGCAGCTGAGGAGGCGAGGCTGAGACCTGCTGAGAGCGCGGCGGAGCTGCGCACTCAG 420
QY 421 TTTCAGAGACTTCACTGACCAATGAGGCGACAGGCTGCGCAACAGCGACGACTG 480
DB 421 TTTCAGAGACTTCACTGACCAATGAGGCGACAGGCTGCGCAACAGCGACGACTG 480
QY 481 GCTCAGGCGCAAGGAGTGGAGTGGCTCGAGCAACAGGCACTTCTCCATCAGCAG 540
DB 481 GCTCAGGCGCAAGGAGTGGAGTGGCTCGAGCAACAGGCACTTCTCCATCAGCAG 540
QY 541 CGCAACTGACCTGCTGAGTAGCGGCTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
DB 541 CGCAACTGACCTGCTGAGTAGCGGCTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600

QY 601 CACCACTGGAGACAGAGGCTCCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
DB 601 CACCACTGGAGACAGAGGCTCCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
QY 661 GCACCATCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
DB 661 GCACCATCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
QY 721 GAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
DB 721 GAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
QY 781 CTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
DB 781 CTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
QY 841 GACAGCAATTCAGAGGATGAAAGGCTGAAAGGCTGAAAGGCTGAAAGGCTGAAAGGCT 900
DB 841 GACAGCAATTCAGAGGATGAAAGGCTGAAAGGCTGAAAGGCTGAAAGGCTGAAAGGCT 900
QY 901 ATACCGAGGCGCAAGTCAAGGACCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
DB 901 ATACCGAGGCGCAAGTCAAGGACCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
QY 961 TCTGGGCGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
DB 961 TCTGGGCGGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
QY 1021 GTCCTCTTCCATCCCTGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
DB 1021 GTCCTCTTCCATCCCTGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
QY 1081 AGCTGGGAGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
DB 1081 AGCTGGGAGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
QY 1141 GAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
DB 1141 GAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
QY 1201 GATCTGAGATCCCAAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAG 1260
DB 1201 GATCTGAGATCCCAAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAG 1260
QY 1260 GATCTGAGATCCCAAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAG 1320
DB 1260 GATCTGAGATCCCAAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAG 1320
QY 1321 GAAATTCACAGCTACAGATGCTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGAT 1380
DB 1321 GAAATTCACAGCTACAGATGCTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGAT 1380
QY 1380 GAAATTCACAGCTACAGATGCTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGAT 1440
DB 1380 GAAATTCACAGCTACAGATGCTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGAT 1440
QY 1441 AGATGAGCACTGAGGCACTTCCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 1500
DB 1441 AGATGAGCACTGAGGCACTTCCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 1500
QY 1500 AGATGAGCACTGAGGCACTTCCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 1560
DB 1500 AGATGAGCACTGAGGCACTTCCAGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 1560
QY 1561 TTTGATACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620
DB 1561 TTTGATACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620
QY 1621 CAGCTGCTCTTCAAGGAGTCTTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGATGCT 1680
DB 1621 CAGCTGCTCTTCAAGGAGTCTTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGATGCT 1680
QY 1680 CAGCTGCTCTTCAAGGAGTCTTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGATGCT 1740
DB 1680 CAGCTGCTCTTCAAGGAGTCTTCAAGATGCTTCAAGATGCTTCAAGATGCTTCAAGATGCT 1740

Parkinson's disease; fertility; immune response; thrombosis; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX CDS 82.1017
XX FT /*tag= a
XX /product= "hydrophobic protein"
XX WO200104297-A2.
XX PD 18-JAN-2001.
XX PF 16-JUN-2000; 2000MO-JP03942.
XX PR 08-JUL-1999; 99JP-0194359.
XX (SAGA) SAGAMI CHEM RES CENT.
XX (PROT-) PROTEGENE INC.
XX Kato S, Kimura T;
XX MPI: 2001-103081/11.
XX P-PSDB; AAB31676.
XX Isolated human proteins and polynucleotides are used in research and
XX have activities including cell proliferation/differentiation activity,
XX immune stimulating activity and receptor/ligand activity -
XX Claim 4, Page 144-147; 151pp; English.
XX
XX The present sequence encodes a human protein with hydrophobic domains.
XX AAF5166 represents a shorter version of the present sequence. The
XX protein possesses a hydrophobic domain and so is a secretory protein
XX or a membrane protein. The protein is used as an antigen to prepare
XX antibodies. The polynucleotide sequence is useful as a source of probes
XX for genetic diagnosis. It is also useful for producing the protein
XX in large quantities and for gene therapy. The eukaryotic cells are used
XX for detecting the receptors or ligands corresponding to the protein and
XX for detecting small novel pharmaceuticals. The antibodies are also used
XX for detection, quantification and purification of the proteins. Both the
XX protein and polynucleotide may be used in research or as nutritional
XX sources or supplements. The protein may have cytokine and cell
XX proliferation/differentiation activity, immune stimulating or suppressing
XX activity, hematopoiesis regulating activity, tissue growth activity,
XX activating/inhibiting activity, chemotactic/chemokinetic activity, hemostatic
XX and thrombolytic activity, receptor/ligand activity, anti-inflammatory
XX activity and tumour inhibition activity. It may therefore be used to
XX treat immune deficiencies resulting from autoimmune disorders or
XX infectious diseases, cancer, sepsis, anaemias, burns and ulcers,
XX periodontal disease, Parkinson's disease, induce fertility, improve
XX immune response and enhance coagulation or inhibit thrombosis.
XX
XX Sequence 1930 BP; 356 A; 647 C; 546 G; 381 T; 0 other;
XX
XX Query Match 92.4%; Score 1889.6; DB 22; Length 1930;
XX Best Local Similarity 98.7%; Pred. No. 0;
XX Matches 1924; Conservative 0; Mismatches 4; Indels 22; Gaps 1;

181 AAGTGGCCACGCGGTATTCCTGTATGTCTGTCCGAGGGCAGAACTCACC 240
QY 181 TGCAGGCTCTTGGGCGCTGTGTGACAAAGGGCAGATGTGACTTCTCAAGAGCTGTAC 360
DB 241 TGCAGGCTCTTGGGCGCTGTGTGACAAAGGGCAGATGTGACTTCTCAAGAGCTGTAC 300
QY 361 GGCAGCTGAGGGGGGAGAGGTGAGACTTGTCTGAGAGCGCGGCCCATCCGAACTCAGC 420
DB 301 CCAGACTGAGGGGGGAGAGGTGAGACTTGTCTGAGAGCGCGGCCCATCCGAACTCAGC 360
QY 421 TTCCAGAGCTTACCTGACATGAGAGGCCACAGGCTGACCAACACGACGACACTG 480
DB 361 TTCCAGAGCTTACCTGACATGAGAGGCCACAGGCTGACCAACACGACGACACTG 420
QY 481 GCTCAGGCGCAGGCGCTGAGAGTGGGCTTCCAGACACATGAGCACTTCTCCATCAGC 540
DB 421 GCTCAGGCGCAGGCGCTGAGAGTGGGCTTCCAGACACATGAGCACTTCTCCATCAGC 480
QY 541 GCGAACCTGACCTGCTGAGATAGCGGCTCTATCTGCTGCTGTGTGTGAGATCAGGCAC 600
DB 481 GCGAACCTGACCTGCTGAGATAGCGGCTCTATCTGCTGCTGTGTGTGAGATCAGGCAC 540
QY 601 CACCACTGAGAGCAGAGGTCATGTGTGACATGAGAGCTGTGAGAGCAGAGCAAGAT 660
DB 541 CACCACTGAGAGCAGAGGTCATGTGTGACATGAGAGCTGTGAGAGCAGAGCAAGAT 600
QY 661 GCACATCAATCTGTGTGTGTGATGACCTGCTCCAGAGATGAGAAACATCAGCGCT 720
DB 601 GCACATCAATCTGTGTGTGTGATGACCTGCTCCAGAGATGAGAAACATCAGCGCT 660
QY 721 GCGAGCTGTGCTAGCGGCTGCTGATGTGAGAACTCTGTGCTCCCTCATCTGCTC 780
DB 661 GCGAGCTGTGCTAGCGGCTGCTGATGTGAGAACTCTGTGCTCCCTCATCTGCTC 720
QY 781 CTGTGTCTACAGCAAGGACAGGACCTTCCAGCGCGCTGCTCAGAGCTGTGTGAGT 840
DB 721 CTGTGTCTACAGCAAGGACAGGACCTTCCAGCGCGCTGCTCAGAGCTGTGTGAGT 780
QY 841 GACAGCAATCTTCAAGAGATGAGAAACCGGCTTGAAGCTTCAACACTGCTCCAGGG 900
DB 781 GACAGCAATCTTCAAGAGATGAGAAACCGGCTTGAAGCTTCAACACTGCTCCAGGG 840
QY 901 ATACCCGAGGCCAAGTACAGGACCCCTGTGTCTATGTGTGAGCGGACGCTTGTAG 960
DB 841 ATACCCGAGGCCAAGTACAGGACCCCTGTGTCTATGTGTGAGCGGACGCTTGTAG 900
QY 961 TTGTGGCGGCAATCTGCTTCCAGAGCGGACGACCCCTGTGTCTCTCCAGGCGCGGAGAC 1020
DB 901 TTGTGGCGGCAATCTGCTTCCAGAGCGGACGACCCCTGTGTCTCTCCAGGCGCGGAGAC 960
QY 1021 GTCCTTCCCAATCCCTGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
DB 961 GTCCTTCCCAATCCCTGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
QY 1081 AGCTGGGGGAGAGTGGGCTGTGTGTGCTGTGTGTGCTGTGTGTGCTGTGTGTGCTGTGT 1140
DB 1021 AGCTGGGGGAGAGTGGGCTGTGTGTGCTGTGTGTGCTGTGTGTGCTGTGTGTGCTGTGT 1080
QY 1141 GGCCTGT 1200
DB 1081 GGCCTGT 1140
QY 1201 GATACCTGTGACATCCCAAGAGCGGCGCTCAACCCCTGTGTGTGTGTGTGTGTGTGTGTGT 1260
DB 1119 GATACCTGTGACATCCCAAGAGCGGCGCTCAACCCCTGTGTGTGTGTGTGTGTGTGTGTGT 1178
QY 1261 TGGAGGCTCAGCGGCTGT 1320
DB 1179 TGGAGGCTCAGCGGCTGT 1238
QY 1321 GAAATTCACAGCTTCAATGAGCAATGAGCAATGAGCAATGAGCAATGAGCAATGAGCAAT 1380
DB 1239 GAAATTCACAGCTTCAATGAGCAATGAGCAATGAGCAATGAGCAATGAGCAATGAGCAAT 1298

QY 1381 CCTTCACAGCTCTGTTCTGAGACATGAGCTTGGAGTGTGGAGCATGAGGACA 1440
 |||||
 Db 1299 CCTTCACAGCTCTGTTCTGAGACATGAGCTTGGAGTGTGGAGCATGAGGACA 1358
 |||||
 QY 1441 AGATGACACTGGGCGACCTCTCCAGGACCAAGACAGGAGGACGATGAGATTTCTC 1500
 |||||
 Db 1359 AGATGACACTGGGCGACCTCTCCAGGACCAAGACAGGAGGACGATGAGATTTCTC 1418
 |||||
 QY 1501 CCCCGTGGCGCGCTTGGCTCCCGCTTTGGCCGAGGCGCTCTCTGACACTTCTC 1560
 |||||
 Db 1419 CCCCGTGGCGCGCTTGGCTCCCGCTTTGGCCGAGGCGCTCTCTGACACTTCTC 1478
 |||||
 QY 1561 TTTTGACCACTGAGTGTGAGGCGAGGCGCTGCGCACTGGCCATCGCCACTTCC 1620
 |||||
 Db 1479 TTTTGACCACTGAGTGTGAGGCGAGGCGCTGCGCACTGGCCATCGCCACTTCC 1538
 |||||
 QY 1621 CAGCTGCTCTTACCAAGATTTCTGTGAAGTCTGTCAACAGGTTAAGTCAATCTGGG 1680
 |||||
 Db 1539 CAGCTGCTCTTACCAAGATTTCTGTGAAGTCTGTCAACAGGTTAAGTCAATCTGGG 1598
 |||||
 QY 1681 CTTCACAGCTCTGATTCAGTCCCGAGAGCTTGGTGGTCCGAAACGGAAAGTACATAT 1740
 |||||
 Db 1599 CTTCACAGCTCTGATTCAGTCCCGAGAGCTTGGTGGTCCGAAACGGAAAGTACATAT 1658
 |||||
 QY 1741 TGGGCGATGAGTGGCTCCGAGAGCAATGATGTCTTGGGCAATCTGAGGCCAGACAGAT 1800
 |||||
 Db 1659 TGGGCGATGAGTGGCTCCGAGAGCAATGATGTCTTGGGCAATCTGAGGCCAGACAGAT 1718
 |||||
 QY 1801 GTTGGCCCAACCACTGAGATGTGTGTGAGGAGAGTGGGCTTCTGGGAAGTGA 1860
 |||||
 Db 1719 GTTGGCCCAACCACTGAGATGTGTGTGAGGAGAGTGGGCTTCTGGGAAGTGA 1778
 |||||
 QY 1861 GTGAGAGGAGGACCTGCGCCCGCCCTCCCATCTCCCACTGCTCAGCGCGG 1920
 |||||
 Db 1779 GTGAGAGGAGGACCTGCGCCCGCCCTCCCATCTCCCACTGCTCAGCGCGG 1838
 |||||
 QY 1921 CCATTGCAAGAGGTGCGACACAAATGTCTTGTCCACCTTGGGACACTTGTGATGAAGCG 1980
 |||||
 Db 1839 CCATTGCAAGAGGTGCGACACAAATGTCTTGTCCACCTTGGGACACTTGTGATGAAGCG 1898
 |||||
 QY 1981 GGATGCTATTAAAACTAGATGGGAAAAA 2010
 |||||
 Db 1899 GGATGCTATTAAAACTAGATGGGAAAAA 1928
 |||||

RESULT 9
 AAF94473
 ID AAF94473 standard; cDNA; 1556 BP.

AAF94473;
 04-JUN-2001 (first entry)

Human hydrophobic domain containing protein clone HP10727 cDNA #87.
 Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
 antianemic; vulnerary; antileuk; osteopathic; anti-inflammatory;
 cytotaxic; gene therapy; autoimmune disorder; multiple sclerosis;
 HIV infection; anemia; burn; ulcer; osteoporosis; tumour; wound healing;
 inflammatory bowel disease; nutritional supplement; appetite; vaccine;
 behavioural characteristic; immune response; ss.

OS Homo sapiens.

PN WO200112660-A2.

PD 22-FEB-2001.

PF 10-AUG-2000; 2000MO-JP05356.

PR 17-AUG-1999; 99JP-0230344.

PR 07-SEP-1999; 99JP-0252551.

PR 01-OCT-1999; 99JP-0281132.
 PR 22-OCT-1999; 99JP-0301624.
 PR 04-NOV-1999; 99JP-0313877.
 PA (SAGA) SAGAMI CHEM RES CENT.
 PA (PROT-) PROTEGENE INC.
 PI Kato S, Kimura T;
 XX WPI; 2001-160059/16.
 DR P-PSDB; AAB88583.
 PR Human proteins with hydrophobic domains and the DNAs which encode them
 PT are useful for treating autoimmune disorders, burns and tumors and for
 XX screening novel pharmaceuticals -
 PS Claim 4; Page 392-394; 518pp; English.
 CC AAF94417 to AAF94516 encode the human proteins given in AAB88557 to
 CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant,
 CC anti-HIV, neuroprotective, antianemic, vulnerary, antileuk, and can be
 CC osteopathic, anti-inflammatory and cytotaxic activities, and as agents
 CC used in gene therapy. (I) can be used as pharmaceuticals and as agents
 CC to prepare antibodies. DNA and cDNA (II) encoding (I) can be used as
 CC probes for genetic diagnosis and gene sources for gene therapy or for
 CC producing (I) in large quantities. Cells containing (II) are used for
 CC the detection of ligands or receptors corresponding to membrane or
 CC secretory proteins and to screen small molecule novel pharmaceuticals.
 CC Antibodies directed to (I) can be used for the detection, quantification
 CC and purification of (I). Activities of (I) may include cytokine and cell
 CC proliferation/differentiation function, immune stimulating or suppressing
 CC activity, haematopoiesis regulating activity, tissue growth activity,
 CC activin/inhibin activity, chemotactic/chemokinetic activity, hemostatic
 CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
 CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
 CC inflammatory scleritis, HIV infections, anaemia, burns, ulcers, osteoporosis,
 CC inflammatory bowel disease and tumours. (I) and (II) can also be used for
 CC wound healing, as nutritional sources or supplements e.g. as amino acid,
 CC carbon or nitrogen source, to effect metabolism, catabolism, anabolism,
 CC processing and utilisation of dietary fat, protein, carbohydrate,
 CC vitamins and minerals, to effect behavioural characteristics, to affect
 CC appetite, and can act as antigens in vaccines to raise an immune response
 CC to the protein or another material cross-reactive with the protein.
 SQ Sequence 1556 BP; 278 A; 521 C; 435 G; 322 T; 0 other.

Query Match 66.4%; Score 1356.8; DB 22; Length 1556;
 Best Local Similarity 99.5%; Pred. No. 8.4e-272;
 Matches 1561; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 651 AGGCAAGATGACCAATCACTGTGTGTGTATCCATCTCTCCAGATATGAAAA 710
 |||||
 Db 183 AGGCAAGATGACCAATCACTGTGTGTGTATCCATCTCTCCAGATATGAAAA 242
 |||||
 QY 711 CATCAAGGCTGAGCGCTGAGGAGGAGGAGTGTAGGAATCTCTGCTCCCT 770
 |||||
 Db 243 CATCAAGGCTGAGCGCTGAGGAGGAGGAGTGTAGGAATCTCTGCTCCCT 302
 |||||
 QY 771 CATCTGCTCTGCTGCTCAAGCAAGGAGGAGGAGTGTAGGAATCTCTGCTCCCT 830
 |||||
 Db 303 CATCTGCTCTGCTGCTCAAGCAAGGAGGAGGAGTGTAGGAATCTCTGCTCCCT 362
 |||||
 QY 831 GGTGCGATGACAGCAACATTCAAGGAGTGAATCCCGCTTGAAGCTCACACC 890
 |||||
 Db 363 GGTGCGATGACAGCAACATTCAAGGAGTGAATCCCGCTTGAAGCTCACACC 422
 |||||
 QY 891 TGGCCAGGAGATACCGAGGCGCAAGTCAAGGAGGAGTGTAGGAATCTCTGCTCCCT 950
 |||||
 Db 423 TGGCCAGGAGATACCGAGGCGCAAGTCAAGGAGGAGTGTAGGAATCTCTGCTCCCT 482
 |||||
 QY 951 GCTTCTGATGCTGGGCGGAGTGTCTTGGAGGCGAGACCCCTGCTCTCCAGG 1010
 |||||
 Db 483 GCTTCTGATGCTGGGCGGAGTGTCTTGGAGGCGAGACCCCTGCTCTCCAGG 542
 |||||

QY	1011	CCCCGGAAGACGCTCTTCCACATCCCTGGACCTCTACCTCTGACTCTCTCCAAACTTTGAGT	1070
Db	543	CCCCCGAAGACGCTCTTCTTCCATCCCTGGACCTCTGACTCTCTCCAACTTTGAGT	602
QY	1071	CATTAAGCCCACTGGGGGACAGTGGGCTGTGTGGCTGGGTCTGGGGCAGGTGCATTG	1130
Db	603	CATTAGCCCACTGGGGGACAGTGGGCTGTGTGGCTGGGTCTGGGGCAGGTGCATTG	662
QY	1131	AGCCAGGGCTGGCTCTGTGAGTGGCTCTTGGCTCGGCTCGGTTCCTTCCTCTGC	1190
Db	663	AGCCAGGGCTGGCTCTGTGAGTGGCTCTTGGCTCGGCTCGGTTCCTTCCTCTGC	722
QY	1191	TCGSGGCTCAGATCTGTGACATATCCCAAGAGCCAGCCCTCAACCCCTCGATGCTAC	1250
Db	723	TCGSGGCTCAGATCTGTGACATATCCCAAGAGCCAGCCCTCAACCCCTCGATGCTAC	782
QY	1251	ATGGGAGTGTGGACGGCTCAGCCCTGTTCAGAGATTTGGGGTGTGAGATTTCTCC	1310
Db	783	ATGGGAGTGTGGACGGCTCAGCCCTGTTCAGAGATTTGGGGTGTGAGATTTCTCC	842
QY	1311	CTAGAGACCTGAATTCACCGGCTACAGTGGCAATGTCAATCTTAAGATCTCA	1370
Db	843	CTAGAGACCTGAATTCACCGGCTACAGTGGCAATGTCAATCTTAAGATCTCA	902
QY	1371	GAACCTCAGACCCCTTCAGAGCTCTGTTCTTGAGACATAGACCTTGGGATGTGGACAGAT	1430
Db	903	GAACCTCAGACCCCTTCAGAGCTCTGTTCTTGAGACATAGACCTTGGGATGTGGACAGAT	962
QY	1431	CAGTGGGACAGATGAGACATGGGGCACTCTCCAGGCAACAAGACAGGGCACTGGTGA	1490
Db	963	CAGTGGGACAGATGAGACATGGGGCACTCTCCAGGCAACAAGACAGGGCACTGGTGA	1022
QY	1491	GAGACTTCTCCCCCGTGGCGGCTTGGGCTTCCCGGTTTGGCCGAGCGTGCTCTTCTGTC	1550
Db	1023	GAGACTTCTCCCCCGTGGCGGCTTGGGCTTCCCGGTTTGGCCGAGCGTGCTCTTCTGTC	1082
QY	1551	AGACTTCTCTTTGTACCAACAGTGGCTCTGGGGCCAGGCTGCTGCCCTCACTGGCCATCG	1610
Db	1083	AGACTTCTCTTTGTACCAACAGTGGCTCTGGGGCCAGGCTGCTGCCCTCACTGGCCATCG	1142
QY	1611	CCACTTCCCCCAGCTGCTCTCTACACAGATTTCTTGAGATCTGTCAACAGTTAAGT	1670
Db	1143	CCACTTCCCCCAGCTGCTCTCTACACAGATTTCTTGAGATCTGTCAACAGTTAAGT	1202
QY	1671	CAATCTGGGGCTTCCACTGCGCTGATTCAGTCCCAAGCGCTGTGTGTGCCGAAAGGG	1730
Db	1203	CAATCTGGGGCTTCCACTGCGCTGATTCAGTCCCAAGCGCTGTGTGTGCCGAAAGGG	1262
QY	1731	AAGTACATATTTGGGGCATGTGGCTCCGTAGCAAAATGTGTCTTTGGGCATCTGAGGC	1790
Db	1263	AAGTACATATTTGGGGCATGTGGCTCCGTAGCAAAATGTGTCTTTGGGCATCTGAGGC	1322
QY	1791	CAGACAGATTTGGCCCCCACTGAGAGATGTGTCTGAGGGAAGTGGTGGGCTTCT	1850
Db	1323	CAGACAGATTTGGCCCCCACTGAGAGATGTGTCTGAGGGAAGTGGTGGGCTTCT	1382
QY	1851	GGAAGAGTGAATGAGAGAGGGCACTGGGCCCTCCGCTCCCATCCCTACTCCCACTGC	1910
Db	1383	GGAAGAGTGAATGAGAGAGGGCACTGGGCCCTCCGCTCCCATCCCTACTCCCACTGC	1442
QY	1911	TCAGCGCGGGCCATTGCAAGGGTGCACACATGTCTTGTCCACTTGGGACATTTCTGA	1970
Db	1443	TCAGCGCGGGCCATTGCAAGGGTGCACACATGTCTTGTCCACTTGGGACATTTCTGA	1502
QY	1971	GTATGAACCGGGATGTCTATTAATACTACATGGGGAAAAAATTTTTAAAAA 2018	
Db	1503	GTATGAACCGGGATGTCTATTAATACTACATGGGGAAAAAAGGTGCAAA 1550	

RESULT 10
AAx97964
ID AAX97964 standard; DNA; 1490 BP.

XX AAX97964;
XX
DT 17-SEP-1999 (first entry)
DE
XX Human secreted protein gene 49.
DE
KW Homo sapiens.
OS
PN W09931117-A1.
PD 24-JUN-1999.
PF 17-DEC-1998; 98WO-US27059.
PR 19-DEC-1997; 97US-0068369.
PR 18-DEC-1997; 97US-0068006.
PR 18-DEC-1997; 97US-0068007.
PR 18-DEC-1997; 97US-0068008.
PR 18-DEC-1997; 97US-0068053.
PR 18-DEC-1997; 97US-0068054.
PR 18-DEC-1997; 97US-0068057.
PR 18-DEC-1997; 97US-0068064.
PR 18-DEC-1997; 97US-0070923.
PR 19-DEC-1997; 97US-0068169.
PR 19-DEC-1997; 97US-0068365.
PR 19-DEC-1997; 97US-0068367.
PR 19-DEC-1997; 97US-0068368.

(HUMA-) HUMAN GENOME SCI INC.
PA
PI Carter KC, Duan RD, Feng P, Ferrie AM, Florence C,
PI Florence K, Greene JM, Janat F, Kyaw H, Moore PA;
PI Ni J, Rosen CA, Ruben SM, Shi Y, Soppet DR, Wei Y,
PI Yu G;
XX
DR MPI: 1999-418749/35.
DR P-PsDB; AAY36272.
XX

New isolated human genes encoding secreted polypeptides

Claim 1, Page 301, 537pp; English.

AAX97916 to AAX98029 represent 110 isolated human secreted protein genes. AAY36224 to AAY37627 represent the secreted proteins encoded by the 110 human genes. The genes and their corresponding secreted polypeptides are useful for preventing, treating or ameliorating medical conditions, e.g. by protein or gene therapy. Also pathological conditions can be diagnosed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the 110 genes, based on which tissues they are most highly expressed in, and include developing products for the diagnosis or treatment of cancer, tumours, developmental abnormalities and foetal deficiencies, blood disorders, diseases of the immune system, autoimmune diseases, inflammation, allergies, Alzheimer's and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis, sepsis, skin disorders, athroscleorosis, diabetes, cardiovascular disorders, kidney disorders, digestive/endocrine disorders, infections and AIDS. The polypeptides are also useful for identifying their binding partners. The sequences given in AAX97907 to AAX97915 and AAY36223 are used in the exemplification of the present invention.

Sequence 1490 BP; 318 A; 468 C; 399 G; 302 T; 3 other;

Query Match	62.8%;	Score 1284.6;	DB 20;	Length 1490;
Best Local Similarity	98.3%;	Pred. No. 7.8e-257;		


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QY 922 CACCCCTGTCTATGTGGCCAGGCGAGCCTTCTGAGTCTGGGCGGCACTGCTTTCG 981
DB 61 CACCCCTGTCTATGTGGCCAGGCGAGCCTTCTGAGTCTGGGCGGCACTGCTTTCG 120
QY 982 GAGCCAGACCCCTGTCTCTCTCAGGCGCCGAGAGGCTCTTCTCCATCCCTGGAC 1041
DB 121 GAGCCAGACCCCTGTCTCTCTCAGGCGCCGAGAGGCTCTTCTCCATCCCTGGAC 180
QY 1042 CCTGCTCCGATCTCTCAAACTTTGAGTCACTAGCCAGCTGGGGGACAGTGGGCTGT 1101
DB 181 CCGTCCGATCTCTCAAACTTTGAGTCACTAGCCAGCTGGGGGACAGTGGGCTGT 240
QY 1102 TGTGCTGGGCTCTGGGCGAGTGCATTTGAGCCAGGCTGTCTGTGAGTGGCTCTT 1161
DB 241 TGTGCTGGGCTCTGGGCGAGTGCATTTGAGCCAGGCTGTCTGTGAGTGGCTCTT 300
QY 1162 GGCCTCGGCGCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1221
DB 301 GGCCTCGGCGCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 360
QY 1222 CCCAGCCCTCAACCCCTCTGATGCTAGATGGGAGTGTGAGCGGCTCAGCCCTGTT 1281
DB 361 CCCAGCCCTCAACCCCTCTGATGCTAGATGGGAGTGTGAGCGGCTCAGCCCTGTT 420
QY 1282 CAGAGATTTTGGGCTGTAGATTTCTCCCTAGAGACTGAAATTCACAGCTACAGATG 1341
DB 421 CAGAGATTTTGGGCTGTAGATTTCTCCCTAGAGACTGAAATTCACAGCTACAGATG 480
QY 1342 CCAATGATTTTCACTTTAAGATGCTCAGAAAGTCAAGTCAAGCTTCAAGAGCTCTCT 1401
DB 481 CCAATGATTTTCACTTTAAGATGCTCAGAAAGTCAAGTCAAGCTTCAAGAGCTCTCT 540
QY 1402 GAGCATGAGCTTGGGAGTGTGGCAGCATCAGTGGGACAAAGATGACACTGGGCGACCT 1461
DB 541 GAGCATGAGCTTGGGAGTGTGGCAGCATCAGTGGGACAAAGATGACACTGGGCGACCT 600
QY 1462 CCCAGGCGACAGACACAGGCGCAGGCTGAGAGACTTCTCCCGGCGGCTTGGCTCC 1521
DB 601 CCCAGGCGACAGACACAGGCGCAGGCTGAGAGACTTCTCCCGGCGGCTTGGCTCC 660
QY 1522 CCGGTTTTGCGGAGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1581
DB 661 CCGGTTTTGCGGAGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 720
QY 1582 GGCAGGCGCTGCTGCGCACTGGCCACCTGCGCAGCTGCGCTCTCTACAGACAT 1641
DB 721 GGCAGGCGCTGCTGCGCACTGGCCACCTGCGCAGCTGCGCTCTCTACAGACAT 780
QY 1642 TTCTCTGAGATCTGTCAACAGGTTAAGTCAATCTGGGCGCTTCTCACTGCTGATTCAG 1701
DB 781 TTCTCTGAGATCTGTCAACAGGTTAAGTCAATCTGGGCGCTTCTCACTGCTGATTCAG 840
QY 1702 TCCCGAGAGCTTGTGTGTCCGAAACGGGAAGTCAATTTGGGCGCATGTGGCTTCG 1761
DB 841 TCCCGAGAGCTTGTGTGTCCGAAACGGGAAGTCAATTTGGGCGCATGTGTGGCTTCG 900
QY 1762 AGCAATGAGTCTTGGGCAATCTGAGGCGAGGACAGATGTTGCCACCACTGGAGAT 1821
DB 901 AGCAATGAGTCTTGGGCAATCTGAGGCGAGGACAGATGTTGCCACCACTGGAGAT 960
QY 1822 GGTGCTGAGGAGTGTGGGCGCTTCTGAGAAAGTGTGAGTGGAGAGGCGACCTGCCCC 1881
DB 961 GGTGCTGAGGAGTGTGGGCGCTTCTGAGAAAGTGTGAGTGGAGAGGACCTGCCCC 1020
QY 1882 CCGCCCTCCCATCCCTACTCCCACTGCTCAGCGGGGCGCATTTGAAGGTGGCCACA 1941
DB 1021 CCGCCCTCCCATCCCTACTCCCACTGCTCAGCGGGGCGCATTTGAAGGTGGCCACA 1080
QY 1942 ATGTCTTGTCCACCTGGGACACTTCTGAGTATGAGCGGAGTGTATTTAAAACTACAT 2001
DB 1081 ATGTCTTGTCCACCTGGGACACTTCTGAGTATGAGCGGAGTGTATTTAAAACTACAT 1140

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QY 2002 GCGGAAAAAAAAAAAAAAAAAAAAAAAAAAGA 2044
DB 1141 GCGGAAACAGGTGCAACCTCGAAAAAAAAAAAAAAAAAAAAA 1183

RESULT 12
MAS62589
ID MAS62589 standard; cDNA, 1016 BP.
XX
XX
AC AAS62589;
XX
XX
DT 14-FEB-2002 (first entry)
XX
DE cDNA sequence #376 encoding novel human secreted protein.
XX
KW Human secreted protein; hyperproliferative disorder; autoimmune disorder;
KW immune deficiency disorder; blood disorder; inflammatory disorder;
KW infectious disorder; gene therapy; antimicrobial; hepatotropic;
KW immunosuppressive; antineumatic; ss.
XX
OS Homo sapiens.
XX
PN MO200177291-A2.
XX
PD 18-OCT-2001.
XX
PF 29-MAR-2001; 2001WO-US10485.
XX
PR 06-APR-2000; 2000US-195604P.
XX
PA (GENY) GENETICS INST INC.
XX
PI Wong GG, Clark HF, Fechtel K, Agostino MJ, Howes SH, Resnick RJ,
PI Gulukota K, Graham JR;
XX
DR WPI; 2002-010900/01.
XX
PT New polynucleotides encoding secreted proteins useful for treating e.g.
PT asthma, HIV and Crohn's disease -
XX
PS Claim 1, Page 273; 391pp; English.
XX
CC The present invention relates to the isolation of novel cDNA sequences
CC which encode human secreted proteins. The cDNA sequences have been
CC derived from a variety of human tissues. The invention also provides
CC a method for producing proteins from these polynucleotide sequences.
CC The proteins are useful for identifying compounds that modulate their
CC activity and production, and the cell is also useful for identifying
CC compounds that modulate expression of the polynucleotide sequences
CC encoding the secreted proteins. The sequences of the invention are
CC useful for treating diseases such as hyperproliferative disorders
CC (e.g. cancer), immune deficiency disorders (e.g. severe combined
CC immunodeficiency (SCID)), autoimmune disorders (e.g. multiple
CC sclerosis), blood disorders (e.g. thrombocytopaenia), inflammatory
CC disorders (e.g. arthritis) and infectious disorders (e.g. hepatitis).
CC The polynucleotide sequences of the invention are also useful in gene
CC therapy. AAS62214-AAS62838 represent the cDNA sequences of the
CC invention that encode for novel human secreted proteins.
XX
SQ Sequence 1016 BP; 183 A; 323 C; 283 G; 227 T; 0 other;

Query Match 49.7%; Score 1016; DB 24; Length 1016;
Best Local Similarity 100.0%; Pred. No. 3.5e-201;
Matches 1016; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 990 CACCCCTGTCTCTCTCAGGCGCCGAGAGGCTCTTCTCCATCCCTGAGACCTGTGCC 1049
DB 1 CACCCCTGTCTCTCTCAGGCGCCGAGAGGCTCTTCTCCATCCCTGAGACCTGTGCC 60
QY 1050 TGACTCTCAAACTTTGAGTCACTAGCCAGCTGGGGGACAGTGGGCTGTGGCTG 1109
DB 61 TGACTCTCAAACTTTGAGTCACTAGCCAGCTGGGGGACAGTGGGCTGTGGCTG 120

```


PR 26-SEP-2000; 2000US-0235484.
 PR 27-SEP-2000; 2000US-0235834.
 PR 27-SEP-2000; 2000US-0235836.
 PR 29-SEP-2000; 2000US-0236327.
 PR 29-SEP-2000; 2000US-0236367.
 PR 29-SEP-2000; 2000US-0236368.
 PR 29-SEP-2000; 2000US-0236369.
 PR 29-SEP-2000; 2000US-0236370.
 PR 02-OCT-2000; 2000US-0236802.
 PR 02-OCT-2000; 2000US-0237037.
 PR 02-OCT-2000; 2000US-0237038.
 PR 02-OCT-2000; 2000US-0237039.
 PR 02-OCT-2000; 2000US-0237040.
 PR 13-OCT-2000; 2000US-0239935.
 PR 13-OCT-2000; 2000US-0239937.
 PR 20-OCT-2000; 2000US-0240960.
 PR 20-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241785.
 PR 20-OCT-2000; 2000US-0241786.
 PR 20-OCT-2000; 2000US-0241787.
 PR 20-OCT-2000; 2000US-0241808.
 PR 20-OCT-2000; 2000US-0241809.
 PR 20-OCT-2000; 2000US-0241826.
 PR 01-NOV-2000; 2000US-0244617.
 PR 08-NOV-2000; 2000US-0244647.
 PR 08-NOV-2000; 2000US-0246475.
 PR 08-NOV-2000; 2000US-0246476.
 PR 08-NOV-2000; 2000US-0246477.
 PR 08-NOV-2000; 2000US-0246478.
 PR 08-NOV-2000; 2000US-0246523.
 PR 08-NOV-2000; 2000US-0246524.
 PR 08-NOV-2000; 2000US-0246525.
 PR 08-NOV-2000; 2000US-0246526.
 PR 08-NOV-2000; 2000US-0246527.
 PR 08-NOV-2000; 2000US-0246528.
 PR 08-NOV-2000; 2000US-0246529.
 PR 08-NOV-2000; 2000US-0246602.
 PR 08-NOV-2000; 2000US-0246610.
 PR 08-NOV-2000; 2000US-0246611.
 PR 08-NOV-2000; 2000US-0246613.
 PR 17-NOV-2000; 2000US-0249207.
 PR 17-NOV-2000; 2000US-0249208.
 PR 17-NOV-2000; 2000US-0249209.
 PR 17-NOV-2000; 2000US-0249210.
 PR 17-NOV-2000; 2000US-0249211.
 PR 17-NOV-2000; 2000US-0249212.
 PR 17-NOV-2000; 2000US-0249213.
 PR 17-NOV-2000; 2000US-0249214.
 PR 17-NOV-2000; 2000US-0249215.
 PR 17-NOV-2000; 2000US-0249216.
 PR 17-NOV-2000; 2000US-0249217.
 PR 17-NOV-2000; 2000US-0249218.
 PR 17-NOV-2000; 2000US-0249244.
 PR 17-NOV-2000; 2000US-0249245.
 PR 17-NOV-2000; 2000US-0249246.
 PR 17-NOV-2000; 2000US-0249285.
 PR 17-NOV-2000; 2000US-0249287.
 PR 17-NOV-2000; 2000US-0249297.
 PR 17-NOV-2000; 2000US-0249299.
 PR 01-DEC-2000; 2000US-0250160.
 PR 01-DEC-2000; 2000US-0250391.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251988.
 PR 05-DEC-2000; 2000US-0251989.
 PR 06-DEC-2000; 2000US-0251479.
 PR 08-DEC-2000; 2000US-0251856.
 PR 08-DEC-2000; 2000US-0251858.
 PR 08-DEC-2000; 2000US-0251869.
 PR 08-DEC-2000; 2000US-0251989.
 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0259678.
 XX

PA (HUMA-) HUMAN GENOME SCI INC.
 XX Rosen CA, Barash SC, Ruben SM,
 XX WPI; 2001-483426/52.
 DR
 XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 PT useful for preventing, diagnosing and/or treating cancers and
 PT metastasis -
 XX
 XX Disclosure; SEQ ID NO 39951; 3071bp + Sequence Listing; English.
 XX
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
 CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting
 CC the nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
 CC to AAK87694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169
 CC represent sequences used in the exemplification of the present invention.
 XX
 SQ Sequence 5920 BP; 1253 A; 1607 C; 1748 G; 1312 T; 0 other;
 Query Match 47.5%; Score 970.4; DB 22; Length 5920;
 Best Local Similarity 99.4%; Pred. No. 1.5e-191;
 Matches 974; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 QY 1039 GACCCCTGCTCCGATCTTCCAACTTTGAGTCATCTTACCCAGCTGGGGACAGTGGGC 1098
 DB 4178 GACCCCTGCTCCGATCTTCCAACTTTGAGTCATCTTACCCAGCTGGGGACAGTGGGC 4237
 QY 1099 TGTGTGCTGGAGTCTGGGGACAGTGCATTTAGCCAGGGCTGGCTGTGAGTGGCTTC 1158
 DB 4238 TGTGTGCTGGAGTCTGGGGACAGTGCATTTAGCCAGGGCTGGCTGTGAGTGGCTTC 4297
 QY 1159 CTTGGCTGGCCCTGTGTTCCCTCCCTGCTGTGGAGTCAGATCTGTGACATCCAG 1218
 DB 4298 CTTGGCTGGCCCTGTGTTCCCTCCCTGCTGTGGAGTCAGATCTGTGACATCCAG 4357
 QY 1219 AAGCCAGCCCTCAACCCCTCTGATGCTAATGGGATGTGACGGCTCAGCCCTTG 1278
 DB 4358 AAGCCAGCCCTCAACCCCTCTGATGCTAATGGGATGTGACGGCTCAGCCCTTG 4417
 QY 1279 TTCCAGAGATTTTGGGGGCTGAGATTCCTCCCTGAGAGCTGAATTACCAAGCTACAG 1338
 DB 4418 TTCCAGAGATTTTGGGGGCTGAGATTCCTCCCTGAGAGCTGAATTACCAAGCTACAG 4477
 QY 1339 ATGCCAATGACTTACATCTTAAGAGTCTCAAGAGTCCAGCCCTTGACAGCTCTCGT 1398
 DB 4478 ATGCCAATGACTTACATCTTAAGAGTCTCAAGAGTCCAGCCCTTGACAGCTCTCGT 4537
 QY 1399 TCTGAGACATGAGCTTGGGAGTGTGGCAGCATCAGTGGGACAAAGATGACATCTGGGCCAC 1458
 DB 4538 TCTGAGACATGAGCTTGGGAGTGTGGCAGCATCAGTGGGACAAAGATGACATCTGGGCCAC 4597
 QY 1459 CCTCCAGGACCAAGACAGAGGACAGGAGAGAGCTTCCCTCCGTTGAGGCTTGGC 1518
 DB 4598 CCTCCAGGACCAAGACAGAGGACAGGAGAGAGCTTCCCTCCGTTGAGGCTTGGC 4657
 QY 1519 TCCCCCGTTTCCCGAGGCTCTCTTGTGACATCTCTTTGTACCAAGTGGCTC 1578
 DB 4658 TCCCCCGTTTCCCGAGGCTCTCTTGTGACATCTCTTTGTACCAAGTGGCTC 4717
 QY 1579 TGGGGCAGGCTGCTGCTGCCACATGGCCATGGCCACCTTCCCAAGTGGCTCTTACCAAG 1638

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Db      4718 TGGGGCCAGGCTTCCTGCCCACCTGCGCATGCCACCTCCCGAGCTGCTCCCTACACAGC 4777
Qy      1639 AGTTCTCTGAAGATCTGTCAACAGGTTAAGTCAATCGGGGCTTCACCTGCATTC 1698
Db      4778 AGTTCTCTGAAGATCTGTCAACAGGTTAAGTCAATCGGGGCTTCACCTGCATTC 4837
Qy      1699 CAGTCCCAAGAGCTTGTGTGTCGCCGAAACGGGAAGTACATATGCGGCAATGTCCTCC 1758
Db      4838 CAGTCCCAAGAGCTTGTGTGTCGCCGAAACGGGAAGTACATATGTCGGGCAATGTCCTCC 4897
Qy      1759 GTGAGCAAAATGCTGCTTGGGCAATCTGAGGCGAGAGCAATGTTCCGCCACCACTGGA 1818
Db      4898 GTGAGCAAAATGCTGCTTGGGCAATCTGAGGCGAGAGCAATGTTCCGCCACCACTGGA 4957
Qy      1819 GATGCTGTGAGGAGGTGGTGGGGGCTTCTGGGAGAGTGAATGAGAGGGGCACTGCG 1878
Db      4958 GATGCTGTGAGGAGGTGGTGGGGGCTTCTGGGAGAGTGAATGAGAGGGGCACTGCG 5017
Qy      1879 CCCCCGCTCCCTCCATCCCTACTCCCACTGCTCAGCGCGGCAATTCAGAGGTGCGAC 1938
Db      5018 CCCCCGCTCCCTCCATCCCTACTCCCACTGCTCAGCGCGGCAATTCAGAGGTGCGAC 5077
Qy      1939 ACAATGCTTCTCCACCTGCGACACTTCTGAATGTAAGCGGAGTGTATTAATACTA 1998
Db      5078 ACAATGCTTCTCCACCTGCGACACTTCTGAATGTAAGCGGAGTGTATTAATACTA 5137
Qy      1999 CATGGGGGAAAAAATAAATA 2018
Db      5138 CATGGGGGAAAAAGTGCAAA 5157

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RESULT 14
AAF25166
ID AAF25166 standard; cDNA; 933 BP.
XX
AC AAF25166;
XX
DT 30-APR-2001 (first entry)
XX
DE Nucleotide sequence of a human protein having a hydrophobic domain.
XX
KW Human; hydrophobic protein; secretory protein; membrane protein; sepsis;
KW tumour inhibition; immune deficiency; autoimmune disorder; anaemia; burn;
KW infectious disease; cancer; ulcer; peritoneal disease; coagulation;
KW Parkinson's disease; fertility; immune response; thrombosis; ss.
XX
OS Homo sapiens.
XX
Key Location/Qualifiers
FT 1..933
FT CDS /tag= a
FT /product= "hydrophobic protein"
FT /note= "no termination codon given"
XX
PN WO200104297-A2.
XX
PD 18-JAN-2001.
XX
PF 16-JUN-2000; 2000WO-JP03942.
XX
PR 08-JUL-1999; 99JP-0194359.
XX
PA (SAGA ) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.
XX
PI Kato S, Kimura T;
XX
XX
XX WPI: 2001-103081/11.
XX DR P-PsDB; AAB31676.
XX
XX Isolated human proteins and polynucleotides are used in research and
XX have activities including cell proliferation/differentiation activity,

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PT Immune stimulating activity and receptor/ligand activity -
XX
XX Claim 3; Page 114-115; 151pp; English.
XX
XX The present sequence encodes a human protein with hydrophobic domains.
CC AAF25176 represents a longer version of the present sequence. The
CC protein possesses a hydrophobic domain and so is a secretory protein
CC or a membrane protein. The protein is used as an antigen to prepare
CC antibodies. The polynucleotide sequence is useful as a source of probes
CC for genetic diagnosis. It is also useful for producing the protein
CC in large quantities and for gene therapy. The eukaryotic cells are used
CC for detecting the receptors or ligands corresponding to the protein and
CC for detecting small novel pharmaceuticals. The antibodies are also used
CC for detection, quantification and purification of the proteins. Both the
CC protein and polynucleotide may be used in research or as nutritional
CC sources or supplements. The protein may have cytokine and cell
CC proliferation/differentiation activity, immune stimulating or suppressing
CC activity, hematopoiesis regulating activity, tissue growth activity,
CC activity/inhibin activity, chemotactic/chemokinetic activity, hemostatic
CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
CC activity and tumour inhibition activity. It may therefore be used to
CC treat immune deficiencies resulting from autoimmune disorders or
CC infectious diseases, cancer, sepsis, anaemia, burns and ulcers,
CC peritoneal disease, Parkinson's disease, induce fertility, improve
CC immune response and enhance coagulation or inhibit thrombosis.
XX
XX Sequence 933 BP; 173 A; 333 C; 255 G; 172 T; 0 other;
SQ
Query Match 45.5%; Score 929.8; DB 22; Length 933;
Best Local Similarity 99.8%; Pred. No. 2,6e-183;
Matches 931; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 142 ATGGGCGTCCCAACGCGCTCTGAGAGCGCGGCACTGCGGCGATCTCTTGCT 201
Db 1 ATGGGCGTCCCAACGCGCTCTGAGAGCGCGGCACTGCGGCGATCTCTTGCT 60
Qy 202 CTCTTCTGCGTGGTCCCTAAGTCCGCGTGGGCACTTCAAGTCCGCGGATATTC 261
Db 61 CTCTTCTGCGTGGTCCCTAAGTCCGCGTGGGCACTTCAAGTCCGCGGATATTC 120
Qy 262 CTGATGCTGTGTCGCCGAGGGGCAAAAGTCACTCACTGAGGCTTGTGGGCTGTG 321
Db 121 CTGATGCTGTGTCGCCGAGGGGCAAAAGTCACTCACTGAGGCTTGTGGGCTGTG 180
Qy 322 GACAAAGGCGACATGTGACTTCTTCAACAAGTGTGACCGAGCTTGAAGGGCGAGGTG 381
Db 181 GACAAAGGCGACATGTGACTTCTTCAACAAGTGTGACCGAGCTTGAAGGGCGAGGTG 240
Qy 382 CAGACCTGTCAAGGCGCGCGCCCATCCGCACTCAAGTTCAGAGCCTTCACTGAC 441
Db 241 CAGACCTGTCAAGGCGCGCGCCCATCCGCACTCAAGTTCAGAGCCTTCACTGAC 300
Qy 442 CATGAGGCGCACAGGCTGCAACACAGGCAAGCTGCTGCTCAGCGGCTGAG 501
Db 301 CATGAGGCGCACAGGCTGCAACACAGGCAAGCTGCTGCTCAGCGGCTGAG 360
Qy 502 TGGGCTTCCGACCAATGCGCACTTCTTCACTACCAATGCGCACTGACCTGTGAT 561
Db 361 TGGGCTTCCGACCAATGCGCACTTCTTCACTACCAATGCGCACTGACCTGTGAT 420
Qy 562 AGCGGCTCTAATGCTGCTGTGTGTGAGAGTCAAGGCAACCACTGAGAGCAAGGTC 621
Db 421 AGCGGCTCTAATGCTGCTGTGTGTGAGAGTCAAGGCAACCACTGAGAGCAAGGTC 480
Qy 622 CATGTGCGATGAGAGCTGAGGTGCAAGCAGGCAAGATGCAACATCACTGTGTG 681
Db 481 CATGTGCGATGAGAGCTGAGGTGCAAGCAGGCAAGATGCAACATCACTGTGTG 540
Qy 682 TACCATCTCTCTCCAGAGATGAGAAACATCAAGGTGAGGCTGAGGCTGAGGCTG 741
Db 541 TACCATCTCTCTCCAGAGATGAGAAACATCAAGGTGAGGCTGAGGCTGAGGCTG 600
Qy 742 TGCAATGAGAAATCTGTGCTCCCTCATCTGCTCTGTGTCTACAAAGGAG 801

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Db      601 TGAATGATAGAAATCTCTGCTCCCTCCATCTCTGCTCTTCAAGCAAGGAGCAG
QY      802 GCAGCTCCCAACCCGCGTGGCCAGAGCTGTGGATGAGACAACTTCAAGGAT 861
Db      661 GCAGCTCCCAACCCGCGTGGCCAGAGCTGTGGATGAGACAACTTCAAGGAT 720
QY      862 GAAACCCCGGCTTTGAAAGCTTCAACCTGCTCCAGGAGGATACCCGAGGCAAGTCAG 921
Db      721 GAAACCCCGGCTTTGAAAGCTTCAACCTGCTCCAGGAGGATACCCGAGGCAAGTCAG 780
QY      922 CACCCCTGCTTATGATGAGGCGGAGGAGCTTGTAGATGTGGGCGGATCTGCTTCG 981
Db      781 CACCCCTGCTTATGATGAGGCGGAGGAGCTTGTAGATGTGGGCGGATCTGCTTCG 840
QY      982 GAGCCGAGACCCCGCTGCTCTCCAGGAGGCGGAGAGCTTCTTCCATCCCTGAGC 1041
Db      841 GAGCCGAGACCCCGCTGCTCTCCAGGAGGCGGAGAGCTTCTTCCATCCCTGAGC 900
QY      1042 CCTGCTCTGATCTCTCCAACTTTGAGTCAATC 1074
Db      901 CCTGCTCTGATCTCTCCAACTTTGAGTCAATC 933

RESULT 15
ABA00061/c
ID      ABA00061 standard; cDNA; 6197 BP.
XX
AC      ABA00061;
XX
DT      25-OCT-2002 (first entry)
XX
DE      CADHP-8 coding sequence, Incyte ID No: 4099073CB1.
XX
KW      Gene; human; cell adhesion protein; CADHP; AIDS; Alzheimer's disease;
KW      acquired immunodeficiency syndrome; thymic dysplasia; epilepsy;
KW      renal tubular acidosis; congenital glaucoma; cancer; atherosclerosis;
KW      Parkinson's disease; ss.
XX
OS      Homo sapiens.
XX
FH      Key
FT      CDS          Location/Qualifiers
FT      FT          1149..6008
FT      FT          /*tag= a
FT      FT          /product= "CADHP-8"
XX
PN      WO200259312-A2.
XX
PD      01-AUG-2002.
XX
PF      18-DEC-2001; 2001WO-US49206.
XX
PR      18-DEC-2000; 2000US-256542P.
PR      22-DEC-2000; 2000US-259642P.
PR      05-JAN-2001; 2001US-260101P.
XX
PA      (INCY-) INCYTE GENOMICS INC.
XX
PI      Duggan BW, Xu Y, Lee EA, Lee S, Lu DM, Warren BA, Yue H;
PI      Gietzen KJ, Honchell CD, Burford N, Baughn WR, Tang TY;
PI      Hillman JL, Gandhi AR, Kallick DA, Bandman O, Graul RC, Walla NK;
PI      Lu Y, Ramkumar J, Yao MG, Lai PG;
XX
DR      WPI; 2002-590826/63.
DR      P-PSDB; AAG79419.
XX
XX      New human cell adhesion proteins (CADHP) useful for treating,
XX      PT      diagnosing and preventing diseases or conditions associated with the
XX      PT      aberrant CADHP expression e.g. cancer, acquired immunodeficiency
XX      PT      syndrome, Alzheimer's disease and epilepsy.
XX      PS      Claim 5, Page 144-45; 149pp; English.
XX

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CC      The sequences given in ABA00054-63 encode novel human cell adhesion
CC      proteins (CADHP). The CADHP polypeptides and polynucleotides are useful
CC      in treating, diagnosing and preventing diseases or conditions associated
CC      with the decreased expression or overexpression of CADHP, e.g. immune
CC      system (acquired immunodeficiency syndrome, thymic dysplasia),
CC      neurological (Alzheimer's disease, Parkinson's disease, epilepsy),
CC      developmental (renal tubular acidosis, congenital glaucoma) and cell
CC      proliferative (cancer, atherosclerosis) disorders. They are also useful
CC      in assessing the effects of exogenous compounds on the expression of
CC      nucleic acid and amino acid sequences of CADHP. The CADHP or its
CC      fragments are useful in screening compounds for effectiveness as
CC      agonist or antagonist of the polypeptides, or in altering the
CC      expression of the target polynucleotide and compounds that specifically
CC      bind to or modulate the activity of the polypeptide. The protein
CC      encoded by this cDNA sequence shows homology to human cadherin-23.
XX
SQ      Sequence 6197 BP; 1314 A; 1931 C; 1802 G; 1150 T; 0 other;
Query Match      37.7%; Score 770.4; DB 24; Length 6197;
Best Local Similarity 97.5%; Pred. No. 4.5e-150;
Matches 825; Conservative 0; Mismatches 16; Indels 5; Gaps 4;
QY      1 GGGGGGCGGTGCTGAGAGAGCGGCGTGGGGCGCGCGGAGGCTCACTGCTCGACTC 60
Db      1010 GGGGGGCGGTGCTGAGAGAGCGGCGTGGGGCGCGCGGAGGCTCACTGCTCGACTC 951
QY      61 AGTCGCGGAGAGCTTCCCGCGCGCGCGCTGCCCGGCTCCCGGAGCAGAAATTC 120
Db      950 AGTCGCGGAGAGCTTCCCGCGCGCGCGCTGCCCGGCTCCCGGAGCAGAAATTC 891
QY      121 CTCTGGCGCTCCGACGCGGACATGCGGCTGCCCAAGCGCTTGAAGCGCGGCTGGCG 180
Db      890 CTCTGGCGCTCCGACGCGGACATGCGGCTGCCCAAGCGCTTGAAGCGCGGCTGGCG 831
QY      181 TGGGGATCCCTGCTCTGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Db      830 TGGGGATCCCTGCTCTGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 771
QY      241 AAGTCGCGGAGAGCTTCCCGCGCGCGCGCTGCCCGGCTCCCGGAGCAGAAATTC 300
Db      770 AAGTCGCGGAGAGCTTCCCGCGCGCGCGCTGCCCGGCTCCCGGAGCAGAAATTC 711
QY      301 TGAAGCTCTTGGGCGCTGTGAGCAAGGAGCAGATGTGACTTTCAAGAAGTGTAC 360
Db      710 TGAAGCTCTTGGGCGCTGTGAGCAAGGAGCAGATGTGACTTTCAAGAAGTGTAC 651
QY      361 CGAGCTGAGGGGAGGAGTGTGAGACCTGTGAGAGCGCGCGGCTCCGCAACTCAG 420
Db      650 CGAGCTGAGGGGAGGAGTGTGAGACCTGTGAGAGCGCGCGGCTCCGCAACTCAG 591
QY      421 TTCAGAGACTTCACTGACCATGAGAGGCAACAGGCTGCCAACAACAGCAGACTG 480
Db      590 TTCAGAGACTTCACTGACCATGAGAGGCAACAGGCTGCCAACAACAGCAGACTG 531
QY      481 GCTCAGGCGCAGGCGGTGAGTGGCGCTTCCAGCAACCATGAGCAACTTCTCATCAG 540
Db      530 GCTCAGGCGCAGGCGGTGAGTGGCGCTTCCAGCAACCATGAGCAACTTCTCATCAG 471
QY      541 CGCAACTGAGACCTGCTGTGATGAGCGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
Db      470 CGCAACTGAGACCTGCTGTGATGAGCGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 411
QY      601 CACCACTCGAGACACAGGCTTCATGAGTGCATGAGAGCTGCAAGTGCAGACAGCAAGAT 660
Db      410 CACCACTCGAGACACAGGCTTCATGAGTGCATGAGAGCTGCAAGTGCAGACAGCAAGAT 351
QY      661 GCACCATCAACTGTGTGTGTGTAACCATCTCTTCCAGAGATGTAAGAAATCAAC-GGC 719
Db      350 GCACCATCAACTGTGTGTGTGTAACCATCTCTTCCAGAGATGTAAGAAATCAAC-GGC 291
QY      720 TGAAGCCCTGGCTAGAGGGGCTT-GCATGTGAGAAATCTCTGCGCTCCGCTCATCTGT- 777
Db      290 TGAAGCCCTGGCTAGAGGGGCTT-GCATGTGAGAAATCTCTGCGCTCCGCTCATCTGT 231

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Db	230	CTCCTGCTCTACAAGCAAGGCAGGCTCCACCGCGCTGCCAGGAGCTGTGC	171
Oy	836	GGATGG	841
Db	170	GGCTGG	165

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Job time : 540 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 8, 2004, 17:50:35 ; Search time 71 Seconds

(without alignments)
695.267 Million cell updates/sec

Title: US-10-006-485A-140

Perfect score: 1651
Sequence: 1 MGVPFALBAGSMWMSLFA.....GDVFPBLSLDPDPSNFEV1 311

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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22: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
23: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*
24: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1651	100.0	311	21	AAV99381	Human PRO1412 (UNO
2	1651	100.0	311	22	AA866130	Protein of the inv
3	1651	100.0	311	23	AB895521	Human angiotensin
4	1651	100.0	311	23	AB884915	Human PRO1412 prot
5	1651	100.0	311	23	AA831676	Human PRO protein,
6	1647	99.8	311	22	AA831676	Amino acid sequenc
7	1640	99.3	311	21	AA87247	Human signal pepti
8	1030	62.4	193	23	AB870193	Human prey protein
9	931	56.4	179	23	ABU11286	CDNA encoding huma

10	889	53.8	1509	22	ABG03875	Novel human diagno
11	783.5	47.5	168	22	AA888583	Human hydrophobic
12	589	35.7	110	21	AA840620	Human ORFX ORF384
13	556	33.7	177	20	AAV36634	Fragment of human
14	136	8.2	174	20	AAV36272	Human secreted pro
15	130	7.9	25	20	AAV36636	Fragment of human
16	125	7.6	480	23	AAU81008	BS1-Ig fusion con
17	114.5	6.9	612	23	AB882158	Human NOVA protei
18	112.5	6.8	215	20	AAV41707	Human PRO386 prote
19	112.5	6.8	215	21	AA844263	Human PRO386 (UNO3
20	112.5	6.8	215	21	AAV70465	Human membrane cna
21	112.5	6.8	215	22	AAU29057	Human PRO polypept
22	112.5	6.8	215	23	AB808950	Human SCN2B. Homo
23	112.5	6.8	215	24	AAU71145	Human PRO386 prote
24	112.5	6.8	215	24	ABU65602	Human secreted/tra
25	112.5	6.8	215	24	ABU65935	Human secreted/tra
26	112.5	6.8	215	24	ABU67493	Human secreted/tra
27	112.5	6.8	215	24	ABU61093	Human secreted/tra
28	112.5	6.8	215	24	ABU65297	Human PRO386 polyp
29	112.5	6.8	215	24	ABU58433	Human PRO polypept
30	112.5	6.8	215	24	ABU55969	Human secreted/tra
31	112.5	6.8	215	24	ABU56964	Human PRO polypept
32	112.5	6.8	215	24	ABU10543	Human secreted/tra
33	112.5	6.8	290	22	AAU03560	Human secreted/tra
34	112.5	6.8	290	22	AAU72678	Mouse immunoregula
35	112.5	6.8	290	22	AAV72678	Mouse B7-4 protei
36	112.5	6.8	290	23	AAU15819	Mouse B7-4 protei
37	112.5	6.8	290	23	AAE15963	Mouse B7H1 protei
38	112.5	6.8	290	24	ABG75660	Mouse PD-1 ligand
39	112.5	6.8	290	24	AAE33392	Mouse PD-L1 polyp
40	112.5	6.8	290	24	ABU18520	Mouse B7-4 protei
41	110.5	6.7	1694	22	AAE09449	Human B7-4 protei
42	110.5	6.7	1709	22	AAE09448	Human sbg248785ta
43	110.5	6.7	1839	22	ABG10466	Human sbg248785ta
44	108.5	6.6	279	22	AAU01370	Novel human diagno
45	108.5	6.6	279	22	AAU01413	Mouse TANCO 509 am

ALIGNMENTS

RESULT 1	AAV99381	standard; Protein; 311 AA.
ID	AAV99381	standard; Protein; 311 AA.
XX	AAV99381;	
AC	AAV99381;	
XX		
DT	08-AUG-2000	(first entry)
XX		
DE	Human PRO1412 (UNQ730) amino acid sequence SEQ ID NO:140.	
XX		
KW	Human; PRO polypeptide; membrane bound protein; receptor; diagnosis;	
XX	transmembrane; secretion; immunoadhesion; pharmaceutical; screening.	
OS	Homo sapiens.	
XX		
PN	WO200012708-A2.	
XX		
PD	09-MAR-2000.	
XX		
PF	01-SEP-1999;	99WO-US20111.
XX		
PR	01-SEP-1998;	98US-0098716.
PR	01-SEP-1998;	98US-0098749.
PR	01-SEP-1998;	98US-0098750.
PR	02-SEP-1998;	98US-0098803.
PR	02-SEP-1998;	98US-0098821.
PR	02-SEP-1998;	98US-0098843.
PR	02-SEP-1998;	98US-0098936.
PR	02-SEP-1998;	98US-0098956.
PR	02-SEP-1998;	98US-0098959.
PR	02-SEP-1998;	98US-0098602.
PR	02-SEP-1998;	98US-0098602.
PR	02-SEP-1998;	98US-0098642.


```

XX PS Claim 12; Fig 84; 773pp; English.
PT PT New mammalian DNA sequences encoding transmembrane, receptor or
DR DR secreted PRO polypeptides, useful for screening of potential peptide or
XX XX small molecule inhibitors of the relevant receptor/ligand interactions
XX PS
XX CC AA037022 to AAA37144 encode the new isolated human transmembrane,
CC CC receptor or secreted PRO polypeptides given in AA99340 to AA99462. The
CC CC transmembrane and receptor PRO proteins can be used for screening of
CC CC potential peptide or small molecule inhibitors of the relevant
CC CC receptor/ligand interactions. The polypeptides and nucleotide sequences
CC CC encoding them have various industrial applications, including uses as
CC CC pharmaceutical and diagnostic agents. AA37145 to AA37330 represent
CC CC PCR primers and hybridization probes used in the isolation of the PRO
XX XX polypeptides from the present invention.
XX XX
XX SQ Sequence 311 AA;
Query Match 100.0%; Score 1651; DB 21; Length 311;
Best Local Similarity 100.0%; Pred. No. 1,le-137;
Matches 311; Conservative 0; Mismatches 0; Indels 0; Gaps 0
QY 1 MGVTALAGSRWNGSLIFALFLASIGPVAAFKVAIPYSIYVCEGONVITLTCLLGPV 60
Db 1 MGVTALAGSRWNGSLIFALFLASIGPVAAFKVAIPYSIYVCEGONVITLTCLLGPV 60
61 DKGDHVFYKYTWYSSRSGEYVTCSERRIRNLTQTODLIHHGHQAANTSHDLAQRHGLE 120

```

Db 61 DKGHDTFTYKTYRSGRGEVQTCSERRPPIRNLITPDILHLHGHOAANTSHDLAQRHGLE 120
 QY 121 SASDHHGNFSITWRNLTLDSGLYCCLVBEIRHHSEHRVHGAMELQVOTGDAFNSCV 180
 Db 121 SASDHHGNFSITWRNLTLDSGLYCCLVBEIRHHSEHRVHGAMELQVOTGDAFNSCV 180
 QY 181 YPSSQDSSENTITAAALATGACIVGILCLPLILLVYKORQASNRRAQELVRMDSNIQGI 240
 Db 181 YPSSQDSSENTITAAALATGACIVGILCLPLILLVYKORQASNRRAQELVRMDSNIQGI 240
 QY 241 ENPGFEASPPAOGIPEAKVRHPLSYAOROPSESGRHLLSEPTPLSPPGDVPFPPSLD 300
 Db 241 ENPGFEASPPAOGIPEAKVRHPLSYAOROPSESGRHLLSEPTPLSPPGDVPFPPSLD 300
 QY 301 PVPDSPNFPEVI 311
 Db 301 PVPDSPNFPEVI 311
 Db 301 PVPDSPNFPEVI 311
 RESULT 2
 AAB66130 standard; protein; 311 AA.
 AAB66130;
 02-APR-2001 (first entry)
 Protein of the invention #42.
 Secreted; transmembrane; gene therapy.
 Unidentified.
 WO200078961-A1.
 28-DEC-2000.
 18-FEB-2000; 2000WO-US04342.
 23-JUN-1999; 99US-0141037.
 20-JUL-1999; 99US-0144758.
 26-JUL-1999; 99US-0145698.
 01-SEP-1999; 99WO-US20111.
 29-OCT-1999; 99US-0162506.
 30-NOV-1999; 99WO-US28313.
 02-DEC-1999; 99WO-US28551.
 16-DEC-1999; 99WO-US30095.
 05-JAN-2000; 2000WO-US00219.
 06-JAN-2000; 2000WO-US00376.
 (GETH) GENENTECH INC.
 Baker KP, Borstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S, Gao W, Goddard A, Godowski PJ, Grimaldi CO, Gurney AL, Hillan KJ, Pan J, Paoni NF, Ray MA, Smith V, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 WPI: 2001-071395/08.
 Secreted and transmembrane proteins and nucleic acids designated PRO, useful as hybridization probes, in chromosome and gene mapping and gene therapy -
 Claim 1, Fig. 84; 787pp; English.
 The present invention relates to secreted and transmembrane proteins. These proteins and the DNA encoding them may be used as hybridization probes, in chromosome and gene mapping and in the generation of anti-sense RNA and DNA. They may also be used to generate either transgenic animals or knockout animals which are in turn useful for development and screening of therapeutically useful reagents.
 The nucleic acids may also be used in gene therapy.

XX SQ Sequence 311 AA;
 Query Match 100.0%; Score 1651; DB 22; Length 311;
 Best Local Similarity 100.0%; Pred. No. 1,1e-137;
 Matches 311; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGVPTALEAGSRWGSLLFALFLAASLGVAAPKATPYSLYCPGQAVTITCRLLGPV 60
 Db 1 MGVPTALEAGSRWGSLLFALFLAASLGVAAPKATPYSLYCPGQAVTITCRLLGPV 60
 QY 61 DKGHDTFTYKTYRSGRGEVQTCSERRPPIRNLITPDILHLHGHOAANTSHDLAQRHGLE 120
 Db 61 DKGHDTFTYKTYRSGRGEVQTCSERRPPIRNLITPDILHLHGHOAANTSHDLAQRHGLE 120
 QY 121 SASDHHGNFSITWRNLTLDSGLYCCLVBEIRHHSEHRVHGAMELQVOTGDAFNSCV 180
 Db 121 SASDHHGNFSITWRNLTLDSGLYCCLVBEIRHHSEHRVHGAMELQVOTGDAFNSCV 180
 QY 181 YPSSQDSSENTITAAALATGACIVGILCLPLILLVYKORQASNRRAQELVRMDSNIQGI 240
 Db 181 YPSSQDSSENTITAAALATGACIVGILCLPLILLVYKORQASNRRAQELVRMDSNIQGI 240
 QY 241 ENPGFEASPPAOGIPEAKVRHPLSYAOROPSESGRHLLSEPTPLSPPGDVPFPPSLD 300
 Db 241 ENPGFEASPPAOGIPEAKVRHPLSYAOROPSESGRHLLSEPTPLSPPGDVPFPPSLD 300
 QY 301 PVPDSPNFPEVI 311
 Db 301 PVPDSPNFPEVI 311
 RESULT 3
 ABB95521 standard; protein; 311 AA.
 ABB95521;
 19-JUL-2002 (first entry)
 Human angiogenesis related protein PRO1412 SEQ ID NO: 198.
 Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer; atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder; caridiac; cytosolic; antiangiogenic; hypotensive; vlnetary;
 antarteriosclerotic.
 Homo sapiens.
 WO200208284-A2.
 31-JAN-2002.
 09-JUL-2001; 2001WO-US21735.
 20-JUL-2000; 2000US-219556P.
 25-JUL-2000; 2000US-220624P.
 25-JUL-2000; 2000US-220664P.
 28-JUL-2000; 2000WO-US20710.
 02-AUG-2000; 2000US-222695P.
 17-AUG-2000; 2000US-0643657.
 23-AUG-2000; 2000WO-US23322.
 24-AUG-2000; 2000WO-US23328.
 07-SEP-2000; 2000US-230978P.
 15-SEP-2000; 2000US-000000P.
 18-SEP-2000; 2000US-0646610.
 18-SEP-2000; 2000US-0665350.
 24-OCT-2000; 2000US-242922P.
 08-NOV-2000; 2000US-0709238.
 08-NOV-2000; 2000WO-US30952.
 10-NOV-2000; 2000WO-US30873.
 01-DEC-2000; 2000WO-US32678.
 20-DEC-2000; 2000US-0747259.

PR 20-DEC-2000; 2000WO-US34956.
 PR 22-JAN-2001; 2001US-0767609.
 PR 28-FEB-2001; 2001US-0796498.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0806889.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 25-MAY-2001; 2001US-0866028.
 PR 25-MAY-2001; 2001US-0866034.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 30-MAY-2001; 2001US-0870574.
 PR 30-MAY-2001; 2001WO-US17443.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 28-JUN-2001; 2001WO-US00000.
 XX (GETH) GENENTECH INC.
 PA (BAKE) BAKER K P.
 PA (FERB) FERRARA N.
 PA (GERB) GERBER H.
 PA (GERR) GERRITSEN M E.
 PA (GODD) GODDARD A.
 PA (GODO) GODOWSKI P J.
 PA (GURN) GURNEY A L.
 PA (HILL) HILLMAN K J.
 PA (HILM) HILLMAN K J.
 PA (MARS) MARSTERS S A.
 PA (PANJ) PAN J.
 PA (PAON) PAONI N F.
 PA (STEP) STEPHAN J F.
 PA (WATA) WATANABE C K.
 PA (WILL) WILLIAMS P M.
 PA (WOOD) WOOD W I.
 XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A,
 PI Godowski PJ, Gurney AL, Hillman KJ, Marsters SA, Pan J, Paoni NF,
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
 XX WPI; 2002-171999/22.
 DR N-PSDB; ABL95659.
 XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal -
 PS Claim 11; Fig 198; 567pp; English.
 XX The present invention provides for the protein and coding sequences of human
 CC PRO proteins. These are useful for treating or diagnosing a
 CC cardiovascular, endothelial or angiogenic disorder, including cardiac
 CC hypertrophy, trauma, cancer, age-related macular degeneration,
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
 CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
 CC healing. The present sequence is a PRO protein of the invention.
 CC
 SQ Sequence 311 AA;
 Query Match 100.0%; Score 1651; DB 23; Length 311;
 Best Local Similarity 100.0%; Pred. No. 1.1e-137;
 Matches 311; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGVPALAEAGSWGSLPALPFLAASLGVAAKVAITPISLYICPGQNTLTCLIGPV 60
 DB 1 MGVPALAEAGSWGSLPALPFLAASLGVAAKVAITPISLYICPGQNTLTCLIGPV 60
 QY 61 DKSHDVTFTKWTYRSRGVQTCSERRPIRNLTFODLHLHGGHOANSHDLAQRHGLE 120
 DB 61 DKSHDVTFTKWTYRSRGVQTCSERRPIRNLTFODLHLHGGHOANSHDLAQRHGLE 120

QY 121 SASDHRGNFSITKRNLTLDLSGLYCCIVAEIRHHSHSRVHGAMELQVGTGKAPSNQV 180
 DB 121 SASDHRGNFSITKRNLTLDLSGLYCCIVAEIRHHSHSRVHGAMELQVGTGKAPSNQV 180
 QY 181 YPSSQDSSENTTAAATGACIVGIIICLPILLLVYKQRAANRPAQELVRDMSNIOGI 240
 DB 181 YPSSQDSSENTTAAATGACIVGIIICLPILLLVYKQRAANRPAQELVRDMSNIOGI 240
 QY 241 ENPGFEASPPAOGIPEAKVHPPLSYVAQROPSESGRHLSEPTPLSPPGGVDFPFLSD 300
 DB 241 ENPGFEASPPAOGIPEAKVHPPLSYVAQROPSESGRHLSEPTPLSPPGGVDFPFLSD 300
 QY 301 PVPDSPNFEVY 311
 DB 301 PVPDSPNFEVY 311
 RESULT 4
 ABB84915
 ID ABB84915 standard; Protein; 311 AA.
 XX
 AC ABB84915;
 XX
 DT 16-MAY-2002 (first entry)
 XX
 DE Human PRO1412 protein sequence SEQ ID NO:198.
 XX
 KW Human; angiogenesis; cardiac; cytostatic; antiangiogenic; hypotensive;
 KW vlnetary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
 KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
 KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
 KW age-related macular degeneration; arterial restenosis; angina;
 KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
 KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
 KW wound healing; chromosome mapping; gene mapping.
 XX
 OS Homo sapiens.
 XX
 PN WO200200690-A2.
 XX
 PD 03-JAN-2002.
 XX
 PF 20-JUN-2001; 2001WO-US19692.
 XX
 PR 23-JUN-2000; 2000US-213637P.
 PR 20-JUL-2000; 2000US-219556P.
 PR 25-JUL-2000; 2000US-220624P.
 PR 25-JUL-2000; 2000US-220664P.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 02-AUG-2000; 2000US-222695P.
 PR 17-AUG-2000; 2000US-0643657.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 07-SEP-2000; 2000US-230978P.
 PR 18-SEP-2000; 2000US-0664610.
 PR 18-SEP-2000; 2000US-0665350.
 PR 24-OCT-2000; 2000US-242922P.
 PR 08-NOV-2000; 2000US-0709238.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000US-0747259.
 PR 22-JAN-2001; 2000WO-US34956.
 PR 28-FEB-2001; 2001US-0796498.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0806889.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.

PR 25-MAY-2001; 2001US-0866028.
 PR 25-MAY-2001; 2001US-0866034.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 30-MAY-2001; 2001US-0870574.
 PR 30-MAY-2001; 2001WO-US17443.
 PR 01-JUN-2001; 2001WO-US17800.
 XX
 PA (GENTECH) GENENTECH INC.
 XX
 PI Baker KP, Ferrara N, Gerbier H, Gerlitsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
 XX
 DR WPI; 2002-090516/12.
 DR N-PSDB; ABL88170.
 XX
 PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal -
 XX
 PS Claim 11; Fig 198; 565pp; English.
 XX
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABL8817 to
 CC ABL885003. The PRO proteins and polynucleotides have cardiac, cytosolic,
 CC antiangiogenic, hypotensive, vulnary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal,
 CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular
 CC degeneration, atherosclerosis, hypertension, arterial restenosis,
 CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,
 CC lymphangitis, tumor angiogenesis (such as breast carcinoma and liver
 CC carcinoma) and wound healing. The PRO polynucleotides have applications
 CC in molecular biology, including use as hybridisation probes, and in
 CC chromosome and gene mapping. ABL88259 to ABL88267 represent primers and
 CC probes used in the exemplification of the present invention.
 XX
 SQ Sequence 311 AA;
 Query Match 100.0%; Score 1651; DB 23; Length 311;
 Best Local Similarity 100.0%; Pred. No. 1, 1e-137;
 Matches 311; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX
 DT 08-MAY-2002 (first entry)
 XX
 DE Human PRO protein, Seq ID No 174.
 XX
 KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
 KW breast cancer; prostate tumour; rectal tumour; liver tumour;
 KW pericyte cell proliferation; chondrocyte cell proliferation;
 XX
 OS Homo sapiens.
 XX
 PN WO200208288-A2.
 XX
 PD 31-JAN-2002.
 XX
 PF 29-JUN-2001; 2001WO-US21066.
 XX
 PR 20-JUL-2000; 2000US-219556P.
 PR 25-JUL-2000; 2000US-220585P.
 PR 25-JUL-2000; 2000US-220605P.
 PR 25-JUL-2000; 2000US-220607P.
 PR 25-JUL-2000; 2000US-220624P.
 PR 25-JUL-2000; 2000US-220638P.
 PR 25-JUL-2000; 2000US-220664P.
 PR 26-JUL-2000; 2000US-220893P.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 15-SEP-2000; 2000US-000000P.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 28-NOV-2000; 2000US-25346P.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000US-074725P.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 10-MAY-2001; 2001US-0854280.
 PR 25-MAY-2001; 2001WO-US17092.
 XX
 PA (GENTECH) GENENTECH INC.
 XX
 PI Baker KP, Desnoyers L, Gerlitsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
 XX
 DR WPI; 2002-172001/22.
 DR N-PSDB; ABK33622.
 XX
 PT One hundred and twenty two nucleic acids encoding PRO polypeptides,
 PT useful for treating a PRO related disorder and for diagnosing tumours
 PT such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal
 PT tumour or liver tumour -
 XX
 PS Claim 11; Figure 174; 359pp; English.
 XX
 CC The invention relates to one hundred and twenty two nucleic acids
 CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
 CC encode human secreted proteins. The PRO nucleic acids, polypeptides,
 CC agonists and antagonists are useful for treating a PRO related disorder.
 CC The PRO polypeptides are useful for diagnosing tumours, especially lung
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
 CC liver tumour. The PRO polypeptides are useful for stimulating the
 CC proliferation of, or gene expression, in pericyte cells, for stimulating
 CC the proliferation or differentiation of chondrocyte cells, for
 CC stimulating the release of tumour necrosis factor-alpha from human blood,
 CC for stimulating or inhibiting the proliferation of normal human dermal
 CC fibroblast cells. The PRO polypeptide may also be used as molecular
 CC weight markers and for tissue typing. The PRO nucleic acids have
 CC applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
 CC protein sequences of the invention.
 XX
 SQ Sequence 311 AA;

Query Match 100.0%; Score 1651; DB 23; Length 311;
 Best Local Similarity 100.0%; Pred. No. 1.1e-137;
 Matches 311; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGVPTALEAGSWRMGSLFLALFLAASLGVAAPKATPYSLYCPGQNTLTCTLLGPV 60
 DB 1 MGVPTALEAGSWRMGSLFLALFLAASLGVAAPKATPYSLYCPGQNTLTCTLLGPV 60
 QY 61 DKGHVTFYKTYWRSRGEVQTCSERRPRTNLTFODLHHRGHQAANTSHDLAQRHGLE 120
 DB 61 DKGHVTFYKTYWRSRGEVQTCSERRPRTNLTFODLHHRGHQAANTSHDLAQRHGLE 120
 QY 121 SASDHGNGFSITMRNLTLLDSGLYCCLVVEIRHHSEHRRVHGMELQVOTGKDAPSNCV 180
 DB 121 SASDHGNGFSITMRNLTLLDSGLYCCLVVEIRHHSEHRRVHGMELQVOTGKDAPSNCV 180
 QY 181 YPSSSODSENITPAALATAGACIVGILCLPLILLVYKORQAASNRRAOELVRMSDNIQGI 240
 DB 181 YPSSSODSENITPAALATAGACIVGILCLPLILLVYKORQAASNRRAOELVRMSDNIQGI 240
 QY 241 ENPGEASPPAOGIPEAKVRHPLSYVAORQPSSEGRHLLSPSTPLSPPGGDVFFPSLD 300
 DB 241 ENPGEASPPAOGIPEAKVRHPLSYVAORQPSSEGRHLLSPSTPLSPPGGDVFFPSLD 300
 QY 301 PVPDSNPFEVI 311
 DB 301 PVPDSNPFEVI 311

RESULT 6
 AAB31676 standard; Protein; 311 AA.

AC AAB31676;
 DT 30-APR-2001 (first entry)

DE Amino acid sequence of a human protein having a hydrophobic domain.
 KW Human; hydrophobic protein; secretory protein; membrane protein; sepsis;
 KW tumour inhibition; immune deficiency; autoimmune disorder; anaemia; burn;
 KW infectious disease; cancer; ulcer; periodontal disease; coagulation;
 KW Parkinson's disease; fertility; immune response; thrombosis.
 OS Homo sapiens.
 PN WO200104297-A2.
 XX
 PD 18-JAN-2001.
 XX
 PF 16-JUN-2000; 2000MO-JP03942.
 XX
 PR 08-JUL-1999; 99JP-0194359.
 XX
 PA (SAGA) SAGAMI CHEM RES CENT.
 PA (PROT-) PROTEGENE INC.
 XX
 PI Kato S, Kimura T;
 XX
 DR WPI; 2001-103081/11.
 DR N-PSDB; AAF25166, AAF25176.
 XX
 PT Isolated human proteins and polynucleotides are used in research and
 PT have activities including cell proliferation/differentiation activity,
 PT immune stimulating activity and receptor/ligand activity -
 XX
 XX Claim 1; Page 102-104; 151pp; English.
 XX
 CC The present sequence represents a human protein with hydrophobic domains.
 CC The protein possesses a hydrophobic domain and so is a secretory protein
 CC or a membrane protein. The protein is used as an antigen to prepare
 CC antibodies. The polynucleotide sequence is useful as a source of probes

CC for genetic diagnosis. It is also useful for producing the protein
 CC in large quantities and for gene therapy. The eukaryotic cells are used
 CC for detecting the receptors or ligands corresponding to the protein and
 CC for detecting small novel pharmaceuticals. The antibodies are also used
 CC for detection, quantification and purification of the proteins. Both the
 CC protein and polynucleotide may be used in research or as nutritional
 CC sources or supplements. The protein may have cytokine and cell
 CC proliferation/differentiation activity, immune stimulating or suppressing
 CC activity, hematopoiesis regulating activity, tissue growth activity,
 CC activin/inhibin activity, chemotactic/chemokinetic activity, hemostatic
 CC and thrombolytic activity, receptor/ligand activity, anti-inflammatory
 CC activity and tumour inhibition activity. It may therefore may be used to
 CC treat immune deficiencies resulting from autoimmune disorders or
 CC infectious diseases, cancer, sepsis, anaemia, burns and ulcers,
 CC periodontal disease, Parkinson's disease, induce fertility, improve
 CC immune response and enhance coagulation or inhibit thrombosis;
 XX

SQ Sequence 311 AA:

Query Match 99.8%; Score 1647; DB 22; Length 311;
 Best Local Similarity 99.7%; Pred. No. 2.5e-137;
 Matches 310; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGVPTALEAGSWRMGSLFLALFLAASLGVAAPKATPYSLYCPGQNTLTCTLLGPV 60
 DB 1 MGVPTALEAGSWRMGSLFLALFLAASLGVAAPKATPYSLYCPGQNTLTCTLLGPV 60
 QY 61 DKGHVTFYKTYWRSRGEVQTCSERRPRTNLTFODLHHRGHQAANTSHDLAQRHGLE 120
 DB 61 DKGHVTFYKTYWRSRGEVQTCSERRPRTNLTFODLHHRGHQAANTSHDLAQRHGLE 120
 QY 121 SASDHGNGFSITMRNLTLLDSGLYCCLVVEIRHHSEHRRVHGMELQVOTGKDAPSNCV 180
 DB 121 SASDHGNGFSITMRNLTLLDSGLYCCLVVEIRHHSEHRRVHGMELQVOTGKDAPSNCV 180
 QY 181 YPSSSODSENITPAALATAGACIVGILCLPLILLVYKORQAASNRRAOELVRMSDNIQGI 240
 DB 181 YPSSSODSENITPAALATAGACIVGILCLPLILLVYKORQAASNRRAOELVRMSDNIQGI 240
 QY 241 ENPGEASPPAOGIPEAKVRHPLSYVAORQPSSEGRHLLSPSTPLSPPGGDVFFPSLD 300
 DB 241 ENPGEASPPAOGIPEAKVRHPLSYVAORQPSSEGRHLLSPSTPLSPPGGDVFFPSLD 300
 QY 301 PVPDSNPFEVI 311
 DB 301 PVPDSNPFEVI 311

RESULT 7
 AAY87247 standard; Protein; 311 AA.

AC AAY87247;
 DT 11-MAY-2000 (first entry)

DE Human signal peptide containing protein HSP-24 SEQ ID NO:24.
 XX
 DE Human; signal peptide-containing protein; HSP; diagnosis; cancer;
 KW inflammation; cardiovascular disease; anticancer; anti-inflammatory;
 KW antimicrobial; neuroprotective; cardiovascular; hepatocytic;
 KW antiasthmatic; gene therapy; cell proliferation; neurological disorder;
 KW reproductive disorder; developmental disorder; arteriosclerosis;
 KW cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
 KW asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
 KW Parkinson's disease; Huntington's disease; ovulatory defect;
 KW muscular dystrophy.
 XX
 OS Homo sapiens.
 XX
 PN WO200000610-A2.
 XX
 PD 06-JAN-2000.

XX 25-JUN-1999; 99MO-US14484.
 PF 26-JUN-1998; 98US-0090762.
 PR 31-JUL-1998; 98US-0094983.
 PR 01-OCT-1998; 98US-0102686.
 PR 11-DEC-1998; 98US-0112129.
 XX (INCY-) INCTE PHARM INC.
 XX
 PI Lal P, Tang YF, Gorgone GA, Corley NC, Guegler RJ, Baughn MR;
 PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman UL,
 PI Bandman O;
 XX WPI; 2000-160673/14.
 DR N-PSDB; AA298132.
 XX
 PT New human signal peptide-containing proteins useful in treatment,
 PT prevention and diagnosis of e.g. cancer, inflammation and
 PT cardiovascular disease
 XX
 PS Claim 1; Page 175; 327pp; English.
 XX
 CC AA298109 to AA298242 encode AA2981724 to AA2981757 which represent the
 CC human signal peptide-containing proteins HSP-1 to HSP-134. HSPs have
 CC anticancer, anti-inflammatory, antimicrobial, neurotropic, hepatotropic,
 CC neuroprotective, cardiovascular and antidiabetic activities, and can
 CC be used in gene therapy. HSPs can be used to treat or prevent disorders
 CC associated with decreased activity or function of HSP. Antagonists of
 CC HSP are used to treat or prevent disorders associated with increased
 CC activity or function of HSP. Such diseases include cell proliferation
 CC (including cancer), inflammation, cardiovascular, neurological,
 CC reproductive or developmental disorders (e.g. arteriosclerosis,
 CC cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia,
 CC asthma, Crohn's disease, microbial or other infections, congestive or
 CC ischaemic heart disease, Alzheimer's, Parkinson's or Huntington's
 CC diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSP
 CC nucleic acids can be used for the recombinant production of HSP, for
 CC detecting HSP in standard hybridisation and amplification assays (for
 CC diagnosis and monitoring), in gene therapy, as antisense,
 CC triplex-forming or ribozyme therapeutics, for detecting related sequences
 CC or genetic variations, and for chromosomal mapping. HSP are also used to
 CC raise specific antibodies (Ab) and to screen for agonists and
 CC antagonists (potential therapeutic agents). Ab are used to diagnose, or
 CC monitor, HSP-related diseases (in usual immunoassays), as therapeutic
 CC antagonists, in competitive drug screens, and for purification of HSP
 CC from natural sources.
 XX
 SQ Sequence 311 AA;
 Query Match 99.3%; Score 1640; DB 21; Length 311;
 Best Local Similarity 99.4%; Pred. No. 1.1e-136;
 Matches 309; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 301 PVPDSNFEV1 311
 DB 301 PVPDSNFEV1 311
 RESULT 8
 ABG70193
 ID ABG70193 standard; Protein; 193 AA.
 XX
 AC ABG70193;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human prey protein for Shigella ipaH9.8 #23.
 XX
 KW Prey protein; ospB, ospD, ipaD, ipaC, ipaH9.8; ospG;
 KW ospC; Shigella; shigellosis; bacillary dysentery; antibacterial;
 KW yeast two-hybrid system; protein-protein interaction; SID;
 KW selected interacting domain; human.
 XX
 OS Homo sapiens.
 XX
 PN MO200257303-A2.
 XX
 PD 25-JUL-2002.
 XX
 PF 11-JAN-2002; 2002MO-EP00777.
 XX
 PR 12-JAN-2001; 2001US-261130P.
 XX
 PA (HYBR-) HYPERGENICS.
 XX
 PI Legrain P;
 XX
 DR WPI; 2002-599706/64.
 DR N-PSDB; ABS51586.
 XX
 PT New complex of protein-protein interactions between a bait Shigella
 PT flexneri polypeptide and a prey mammalian or human placenta polypeptide
 PT for treating or preventing bacillary dysentery in a mammal or human
 XX
 PS Claim 7; Page 124; 162pp; English.
 XX
 CC The invention relates to a complex of protein-protein interactions
 CC between a Shigella flexneri polypeptide (e.g. ospB, ospD, ipaD, ipaC,
 CC ipaH9.8, ospG and ospC1) and a mammalian polypeptide defined in the
 CC specification. The complexes are formed using the yeast two-hybrid
 CC system. Also included are (1) a recombinant host cell expressing the
 CC interactions between the Shigella flexneri polypeptide and a mammalian
 CC polypeptide defined in the specification; (2) selecting a modulating
 CC compound that inhibits or activates the protein-protein interactions;
 CC (3) a modulating compound obtained from the method of (2); (4) a SID
 CC (selected interacting domain) polypeptide or its fragment or variant
 CC comprising the human polypeptides appearing as ABG70042-ABG70242;
 CC (5) a SID polynucleotide or its fragment or variant comprising
 CC encoding the above polypeptides a vector comprising (5);
 CC (6) a recombinant host cell containing the vector; and (10) a protein
 CC chip comprising Shigella flexneri polypeptide and a mammalian polypeptide
 CC defined in the specification. A pharmaceutical composition comprising the
 CC compound, polypeptide or polynucleotide is useful for treating or
 CC preventing shigellosis (bacillary dysentery) in a human or mammal.
 CC The present sequence represents a human prey protein isolated by the
 CC yeast two-hybrid assay, forming a complex of the invention with a
 CC Shigella protein.
 XX
 SQ Sequence 193 AA;
 Query Match 62.4%; Score 1030; DB 23; Length 193;
 Best Local Similarity 100.0%; Pred. No. 5.1e-83;
 Matches 193; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Db      1 AAFKATPYSLYVCEGQNTLTCLLPVKGHDVTFYKWTYRSRSGEVOTCSERRR 60
QY      91 NITPDLLHGHGHOAANTSHDLAQRHGESDHHGNSITRMULTLDSGLYCLAVE 150
Db      61 NITPDLLHGHGHOAANTSHDLAQRHGESDHHGNSITRMULTLDSGLYCLAVE 120
QY      151 IRHHSEHRVHGAMELQVOTGKADAPSNVCVYPSSSQDSSENTTAAALATGACTVGLTCLPL 210
Db      121 IRHHSEHRVHGAMELQVOTGKADAPSNVCVYPSSSQDSSENTTAAALATGACTVGLTCLPL 180
QY      211 ILLVYKORQAS 223
Db      181 ILLVYKORQAS 193

RESULT 9
ABU11286
ID      ABU11286 standard; Protein; 179 AA.
XX
AC      ABU11286;
XX
DT      10-FEB-2003 (first entry)
XX
DE      cDNA encoding human cancer suppressing protein PF7827.
XX
KM      Human; cancer suppressing protein; cancer.
XX
OS      Homo sapiens.
XX
PN      CN1351081-A.
XX
PD      29-MAY-2002.
XX
PF      31-OCT-2000; 2000CN-0127102.
XX
PR      31-OCT-2000; 2000CN-0127102.
XX
PA      (SHAN-) SHANGHAI INST ONCOLOGY.
XX
PI      Gu J;
XX
DR      WPI; 2002-609437/66.
XX
DR      N-PSDB; ABX34032.
XX
PT      New human protein with cancer cell growth suppressing function and a
PT      polynucleotide encoding it, for treating diseases, such as, cancer -
PS      Claim 1; Page 31 (disclosure); 39pp; Chinese.
XX
CC      This invention relates to the cDNA and protein sequences of a novel
CC      human protein with cancer suppressing function. The invention also
CC      comprises a method for preparing the polypeptide by recombination,
CC      and an application of the polypeptide in treating diseases such as
CC      cancer, etc. Also disclosed in an antagonist of the polypeptide and
CC      its medical action. The present sequence represents a cancer
CC      suppressing protein of the invention.
XX
SQ      Sequence 179 AA;
XX
Query Match 56.4%; Score 931; DB 23; Length 179;
Best Local Similarity 99.4%; Pred. No. 2,7e-74;
Matches 178; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      133 MERNLTLLDSGLYCLAVEIRHHSEHRVHGAMELQVOTGKADAPSNVCVYPSSSQDSSENT 192
Db      1 MERNLTLLDSGLYCLAVEIRHHSEHRVHGAMELQVOTGKADAPSNVCVYPSSSQDSSENT 60
QY      193 AALATGACTVGLTCLPLILLVYKORQASNRRAQELVYMSDNIQIENPGFEASPPAQ 252
Db      61 AALATGACTVGLTCLPLILLVYKORQASNRRAQELVYMSDNIQIENPGFEASPPAQ 120
QY      253 GIPEAKVRHPLSYVAORQPSGRHLLSEPTSLSPGPDVFPFLDPVPSDFNFEVI 311

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Db      121 GIPEAKVRHPLSYVAORQPSGRHLLSEPTSLSPGPDVFPFLDPVPSDFNFEVI 179
QY      28 GVAAPKATPYSLYVCEGQNTLTCLLPVKGHDVTFYKWTYRSRSGEVOTCSERR 87
Db      23 GVAAPKATPYSLYVCEGQNTLTCLLPVKGHDVTFYKWTYRSRSGEVOTCSERR 82

RESULT 10
ABG03875
ID      ABG03875 standard; Protein; 1509 AA.
XX
AC      ABG03875;
XX
DT      13-FEB-2002 (first entry)
XX
DE      Novel human diagnostic protein #3866.
XX
KM      Human; chromosome mapping; gene mapping; gene therapy; forensic;
KM      food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS      Homo sapiens.
XX
PN      WO200175067-A2.
XX
PD      11-OCT-2001.
XX
PF      30-MAR-2001; 2001WO-US08631.
XX
PR      31-MAR-2000; 2000US-0540217.
XX
PR      23-AUG-2000; 2000US-0649167.
XX
PA      (HYSB-) HYSBQ INC.
XX
PI      Drmanac RT, Liu C, Tang YT;
XX
DR      WPI; 2001-639362/73.
XX
DR      N-PSDB; AAS68062.
XX
PT      New isolated polynucleotide and encoded polypeptides, useful in
PT      diagnostics, forensic, gene mapping, identification of mutations
PT      responsible for genetic disorders or other traits and to assess
PT      biodiversity.
XX
PS      Claim 20; SEQ ID No 34234; 103pp; English.
XX
CC      The invention relates to isolated polynucleotide (I) and
CC      polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC      polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC      and gene mapping, and in recombinant production of (II). The
CC      polynucleotides are also used in diagnostics as expressed sequence tags
CC      for identifying expressed genes. (I) is useful in gene therapy techniques
CC      to restore normal activity of (II) or to treat disease states involving
CC      (II). (II) is useful for generating antibodies against it, detecting or
CC      quantitating a polypeptide in tissue, as molecular weight markers and as
CC      a food supplement. (II) and its binding partners are useful in medical
CC      imaging of sites expressing (II). (I) and (II) are useful for treating
CC      disorders involving aberrant protein expression or biological activity.
CC      The polypeptide and polynucleotide sequences have applications in
CC      diagnostics, forensic, gene mapping, identification of mutations
CC      responsible for genetic disorders or other traits to assess biodiversity
CC      and to produce other types of data and products dependent on DNA and
CC      amino acid sequences. ABG00010-ABG30377 represent novel human
CC      diagnostic amino acid sequences of the invention.
CC      Note: The sequence data for this patent did not appear in the printed
CC      specification, but was obtained in electronic format directly from WIPO
CC      at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ      Sequence 1509 AA;
XX
Query Match 53.8%; Score 889; DB 22; Length 1509;
Best Local Similarity 66.2%; Pred. No. 2.4e-63;
Matches 184; Conservative 14; Mismatches 38; Indels 42; Gaps 5;

QY      28 GVAAPKATPYSLYVCEGQNTLTCLLPVKGHDVTFYKWTYRSRSGEVOTCSERR 87
Db      23 GVAAPKATPYSLYVCEGQNTLTCLLPVKGHDVTFYKWTYRSRSGEVOTCSERR 82

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QY 88 PIRNLTFODLHLHGHGHOANTSHDLAQRHGLSEASDPHGNFTMTNLTLDGLYCC 147
 DB 83 PIRNLTFODLHLHGHGHOANTSHDLAQRHGLSEASDPHGNFTMTNLTLDGLYCC 142
 QY 148 VVEIRHHSHRHVGHAMELVQVQCKDAPSNVCVVPSSQDSE-----NITAAATGACTV 203
 DB 143 VVEIRHHSHRHVGHAMELVQVQCKDAPSNVCVVPSSQDSESNHGNFPRIHVSNGILMR 202
 QY 204 GILCLPLILLVYKORQASNRRAQELVRMDSNIOGIENGFEPASPPAGCIPKAVRHP 263
 DB 203 G-----PRLDREHSSHTLIYEARNHDLGPRWSSVRKRLKROST 242
 QY 264 SYVAQ-----RQSESGRHILSEPSTPL 286
 DB 243 A-LAOWHTGTALDRKQVWFSRKPSCS--HLSKLTLDL 277

RESULT 11
 AAB88583 standard; Protein; 168 AA.

AC AAB88583;
 XX
 DT 04-JUN-2001 (first entry)
 XX
 DE Human hydrophobic domain containing protein clone HPI0727 #67.
 XX
 KW Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
 KW antineutrophilic; antiulcer; osteoporosis; anti-inflammatory;
 KW cytotoxic; gene therapy; autoimmune disorder; multiple sclerosis;
 KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
 KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;
 KW behavioural characteristic; immune response.
 XX
 OS Homo sapiens.
 XX
 PN WO200112660-A2.
 XX
 PD 22-FEB-2001.
 XX
 PF 10-AUG-2000; 2000WO-JP05356.
 XX
 PR 17-AUG-1999; 99JP-0230344.
 PR 07-SEP-1999; 99JP-0252551.
 PR 01-OCT-1999; 99JP-0281132.
 PR 22-OCT-1999; 99JP-0301624.
 PR 04-NOV-1999; 99JP-0313877.
 XX
 PA (SAGA) SAGAMI CHEM RES CENT.
 PA (PROT-) PROTEGENE INC.
 XX
 PI Kato S, Kimura T;
 XX
 DR WPI, 2001-160059/16.
 DR N-PSDB; AAF94463.
 XX
 PT Human proteins with hydrophobic domain and the DNAs which encode them
 PT are useful for treating autoimmune disorders, burns and tumors and for
 PT screening novel pharmaceuticals -
 XX
 PT
 XX
 XX Claim 1; Page 358-359; 518pp; English.
 CC AAF94417 to AAF94516 encode the human proteins given in AAB88557 to
 CC AAB8606 (I) which have a hydrophobic domain. (I) have immunosuppressant,
 CC anti-HIV, neuroprotective, antineutrophilic, antiulcer, anti-inflammatory,
 CC osteoporosis, anti-infective and cytotoxic activities, and can be
 CC used in gene therapy. (I) can be used as pharmaceuticals and as antigens
 CC to prepare antibodies. DNA and cDNA (II) encoding (I) can be used as
 CC probes for genetic diagnosis and gene sources for gene therapy or for
 CC producing (I) in large quantities. Cells containing (II) are used for
 CC the detection of ligands or receptors corresponding to membrane or
 CC secretory proteins and to screen small molecule novel pharmaceuticals.

CC Antibodies directed to (I) can be used for the detection, quantification
 CC and purification of (I). Activities of (I) may include cytokine and cell
 CC proliferation/differentiation function, immune stimulating or suppressing
 CC activity, haematopoiesis regulating activity, tissue growth activity.
 CC CC activity/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
 CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
 CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis,
 CC inflammatory bowel disease and tumours. (I) and (II) can also be used for
 CC wound healing, as nutritional sources or supplements e.g. as amino acid,
 CC carbon or nitrogen source, to effect metabolism, catabolism, anabolism,
 CC processing and utilisation of dietary fat, protein, carbohydrate,
 CC vitamins and minerals, to effect behavioural characteristics, to affect
 CC appetite, and can act as antigens in vaccines to raise an immune response
 CC to the protein or another material cross-reactive with the protein.
 CC
 SO Sequence 168 AA;
 Query Match 47.5%; Score 783.5; DB 22; Length 168;
 Best Local Similarity 53.7%; Pred. No. 2.7e-61;
 Matches 167; Conservative 1; Mismatches 0; Indels 143; Gaps 1;

QY 1 MGVPPTALEGSRWMSLPLFLAASIGPVAFAKATPRLVCEBQVNTLCRLGAV 60
 DB 1 MGVPPTALEGSRWMSLPLFLAASL-----
 QY 61 DKGHVTFYKTVYRRSGREVQTSERRPIRNLTFODLHLHGHGHOANTSHDLAQRHGL 120
 DB 28 -----
 QY 121 SASDHHGNFTMTNLTLDGLYCCVLEIRHHSHRHVGHAMELVQVQCKDAPSNVCV 180
 DB 28 -----
 QY 181 YPSSGDSSENITAAALATAGCTVGLCLPLILLVYKORQASNRRAQELVRMDSNIOGI 240
 DB 38 YPSSGDSSENITAAALATAGCTVGLCLPLILLVYKORQASNRRAQELVRMDSNIOGI 97
 QY 241 ENPGFASPPAGCIPKAVRHPISYVAORQPSGSGRHILSEPSTPLPPGPDVFPSPSD 300
 DB 98 ENPGFASPPAGCIPKAVRHPISYVAORQPSGSGRHILSEPSTPLPPGPDVFPSPSD 157
 QY 301 PVPDSNFEVY 311
 DB 158 PVPDSNFEVY 168

RESULT 12
 AAB40620 standard; Protein; 110 AA.
 ID AAB40620;
 AC AAB40620;
 XX
 DT 08-FEB-2001 (first entry)
 XX
 DE Human ORFX ORF384 polypeptide sequence SEQ ID NO:768.
 XX
 KW Human; open reading frame; ORFX; detection; cytotoxic; hepatotropic;
 KW vullerary; antiparasitic; antiparkinsonian; neurotrophic; neuroprotective;
 KW anticonvulsant; osteoporosis; antiarthritic; immunosuppressant; cardiac;
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;
 KW hypotensive; dermatological; immunosuppressive; anti-inflammatory;
 KW antiviral; antibacterial; antifungal; antineutrophilic; antithyroid;
 KW antineutrophilic; gene therapy; cancer; proliferative disorder; hypertension;
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 KW cholesterol ester storage; systemic lupus erythematosus; infection;
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 KW bone damage; cartilage damage; antiinflammatory disease; coagulation;
 KW thrombosis; contraceptive.
 XX
 OS Homo sapiens.

122 630
 122 228
 01/540 703

W0 00/58473
 60/122602 - 3/31/99

XX WO200058473-A2.
 XX 05-OCT-2000.
 XX 31-MAR-2000; 2000WO-US08621.
 XX 31-MAR-1999; 99US-0127607.
 XX 02-APR-1999; 99US-0127636.
 XX 05-APR-1999; 99US-0127728.
 XX 30-MAR-2000; 2000US-0540763.
 XX (CURA-) CURAGEN CORP.
 XX Shinkens RA, Leach M;
 XX WPI, 2000-602362/57.
 XX N-PSDB; AAC74829.
 XX Novel nucleic acids and peptides derived from open reading frame X,
 XX useful for treating e.g. cancers, proliferative disorders,
 XX neurodegenerative disorders and cardiovascular disease -
 XX Claim 11, Page 839; 5507PP; English.
 XX AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,
 XX which represent the human ORF open reading frames 1 to 3161. The ORF
 XX sequences have activities such as: cytoskeletal; hepatotropic; vulnary;
 XX antiproliferative; antiparkinsonian; nootropic; neuroprotective;
 XX osteoplastic; anticonvulsant; antidiabetic; immunosuppressant;
 XX immunostimulant; cardiatic; thrombolytic; coagulant; vasotrophic;
 XX antidiabetic; hypotensive; dermatological; immunosuppressive;
 XX antiinflammatory; antibacterial; antiviral; antifungal; antineumatic;
 XX antihypertensive; and antianemic. The sequences can be used for determining
 XX the presence of or predisposition to, or preventing or treating
 XX pathological conditions associated with an ORF-associated disorder. The
 XX nucleic acids can be used to express ORF proteins in gene therapy
 XX vectors. The proteins and nucleic acids may be used to treat cancers,
 XX proliferative disorders, neurodegenerative disorders, osteoarthritis,
 XX graft vs host disease, cardiovascular disease, diabetes mellitus,
 XX hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
 XX erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,
 XX bacterial or fungal infection, malaria, autoimmune disorders, asthma,
 XX allergic, aplastic anaemia, burns, wounds, bone and cartilage damage,
 XX nocturnal haemoglobinuria, antiinflammatory disease; to enhance
 XX coagulation; to inhibit thrombosis; and as a contraceptive.
 XX Sequence 110 AA;
 XX SQ
 XX Query Match 35.7%; Score 589; DB 21; Length 110;
 XX Best Local Similarity 99.1%; Pred. No. 2.5e-44;
 XX Matches 109; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MGVPTLKGSGWMSGLPLPLAASLGPAAKATPVSILYVCPGQNTLTCLLGV 60
 DB 1 MGVPTLKGSGWMSGLPLPLAASLGPAAKATPVSILYVCPGQNTLTCLLGV 60
 QY 61 DKSHDVTFKYKWRSSRGVQTCSEKRPINLTFODLHLHGHQANNTS 110
 DB 61 DKSHDVTFKYKWRSSRGVQTCSEKRPINLTFODLHLHGHQANNTS 110
 RESULT 13
 ID AAY36634 standard; Protein; 177 AA.
 AC AAY36634;
 XX 17-SEP-1999 (first entry)
 XX Fragment of human secreted protein encoded by gene 49.
 XX Human; secreted protein; cancer; tumour; developmental abnormality;

KW foetal deficiency; blood disorder; immune system disorder; inflammation;
 KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
 KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
 KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
 KW digestive disorder; endocrine disorder; infection; AIDS.
 KW Homo sapiens.
 XX MO9931117-A1.
 XX 24-JUN-1999.
 XX 17-DEC-1998; 98MO-US27059.
 XX 19-DEC-1997; 97US-0068369.
 XX 18-DEC-1997; 97US-0068006.
 XX 18-DEC-1997; 97US-0068007.
 XX 18-DEC-1997; 97US-0068008.
 XX 18-DEC-1997; 97US-0068053.
 XX 18-DEC-1997; 97US-0068054.
 XX 18-DEC-1997; 97US-0068057.
 XX 18-DEC-1997; 97US-0068064.
 XX 18-DEC-1997; 97US-0070923.
 XX 19-DEC-1997; 97US-0068169.
 XX 19-DEC-1997; 97US-0068365.
 XX 19-DEC-1997; 97US-0068367.
 XX 19-DEC-1997; 97US-0068368.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Carter KC, Duan RD, Feng P, Ferrle AM, Florence C;
 XX Florence K, Greene JM, Janat P, Kyaw H, Moore PA;
 XX Ni J, Rosen CA, Ruben SM, Shi Y, Soppet DR, Wei Y;
 XX Yu G;
 XX WPI, 1999-418749/35.
 XX New isolated human genes encoding secreted polypeptides
 XX Disclosure; Page 506; 537PP; English.
 XX AAX97916 to AAX98029 represent 110 isolated human secreted protein
 XX genes. AAX36224 to AAX6727 represent the secreted proteins encoded by
 XX the 110 human genes. The genes and their corresponding secreted
 XX polypeptides are useful for preventing, treating or ameliorating medical
 XX conditions, e.g. by protein or gene therapy. Also pathological conditions
 XX can be diagnosed by determining the amount of the new polypeptides in a
 XX sample or by determining the presence of mutations in the new genes.
 XX Specific uses are described for each of the 110 genes, based on which
 XX tissues they are most highly expressed in, and include developing
 XX products for the diagnosis or treatment of cancer, tumours, developmental
 XX abnormalities and foetal deficiencies, blood disorders, diseases of the
 XX immune system, autoimmune diseases, inflammation, allergies, Alzheimer's
 XX and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis,
 XX sepsis, skin disorders, atherosclerosis, diabetes, cardiovascular
 XX disorders, kidney disorders, digestive/endocrine disorders, infections
 XX and AIDS. The polypeptides are also useful for identifying their binding
 XX partners. The sequences given in AAX97907 to AAX97915 and AAX36223 are
 XX used in the exemplification of the present invention.
 XX Sequence 177 AA;
 XX SQ
 XX Query Match 33.7%; Score 556; DB 20; Length 177;
 XX Best Local Similarity 100.0%; Pred. No. 3.9e-41;
 XX Matches 107; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 205 ILCLPLILLVYKQQAASNRRAQELVMDNSIQIENPGRASPAGIIPAKYRHPIS 264
 DB 53 ILCLPLILLVYKQQAASNRRAQELVMDNSIQIENPGRASPAGIIPAKYRHPIS 112
 QY 265 YVAORQPSBSGRHLSRSTPLSPGPDVFPFSLDPVDSNPFVI 311
 DB 113 YVAORQPSBSGRHLSRSTPLSPGPDVFPFSLDPVDSNPFVI 159

RESULT 14
 AAY36272
 ID AAY36272 standard; Protein; 174 AA.
 XX
 AC AAY36272;
 XX
 DT 17-SEP-1999 (first entry)
 XX
 DE Human secreted protein encoded by gene 49.
 XX
 KW Human; secreted protein; cancer; tumour; developmental abnormality;
 KW foetal deficiency; blood disorder; immune system disorder; inflammation;
 KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
 KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
 KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
 KW digestive disorder; endocrine disorder; infection; AIDS.
 XX
 OS Homo sapiens.
 XX
 PN MO9931117-A1.
 XX
 PD 24-JUN-1999.
 XX
 PF 17-DEC-1998; 98WO-US27059.
 XX
 PR 19-DEC-1997; 97US-0068369.
 PR 18-DEC-1997; 97US-0068006.
 PR 18-DEC-1997; 97US-0068007.
 PR 18-DEC-1997; 97US-0068008.
 PR 18-DEC-1997; 97US-0068053.
 PR 18-DEC-1997; 97US-0068054.
 PR 18-DEC-1997; 97US-0068057.
 PR 18-DEC-1997; 97US-0068064.
 PR 18-DEC-1997; 97US-0070923.
 PR 19-DEC-1997; 97US-0068169.
 PR 19-DEC-1997; 97US-0068365.
 PR 19-DEC-1997; 97US-0068367.
 PR 19-DEC-1997; 97US-0068368.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Carter KC, Duan RD, Feng P, Ferrie AM, Florence C;
 PI Florence K, Greene JM, Janat F, Kyaw H, Moore PA;
 PI Ni J, Rosen CA, Ruben SM, Shi Y, Soppet DR, Wei Y;
 PI Yu G;
 XX
 DR WPI; 1999-418749/35.
 DR N-PSDB; AAY37964.
 XX
 PT New isolated human genes encoding secreted polypeptides
 XX
 PS Claim 11; Page 372; 537pp; English.
 CC AAY37916 to AAY98029 represent 110 isolated human secreted protein
 CC genes. AAY36224 to AAY36727 represent the secreted proteins encoded by
 CC the 110 human genes. The genes and their corresponding secreted
 CC polypeptides are useful for preventing, treating or ameliorating medical
 CC conditions, e.g. by protein or gene therapy. Also pathological conditions
 CC can be diagnosed by determining the amount of the new polypeptides in a
 CC sample or by determining the presence of mutations in the new genes.
 CC Specific uses are described for each of the 110 genes, based on which
 CC tissues they are most highly expressed in, and include developing
 CC products for the diagnosis or treatment of cancer, tumours, developmental
 CC abnormalities and foetal deficiencies, blood disorders, diseases of the
 CC immune system, autoimmune diseases, inflammation, allergies, Alzheimer's
 CC and cognitive disorders, schizophrenia, arthritis, asthma, psoriasis,
 CC sepsis, skin disorders, atherosclerosis, diabetes, cardiovascular
 CC disorder, kidney disorders, digestive/endocrine disorders, infections
 CC and AIDS. The polypeptides are also useful for identifying their binding
 CC partners. The sequences given in AAY37907 to AAY37915 and AAY36223 are
 CC used in the exemplification of the present invention.

XX
 SQ Sequence 174 AA;
 XX
 Query Match 8.2%; Score 136; DB 20; Length 174;
 Best Local Similarity 87.5%; Pred. No. 0.00055;
 Matches 28; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 QY 1 MGVPFALBAGSWRWGSLFALFLASLDITAA 32
 DB 1 MGVPFALBAGSWRWGSLFALFLASLDITAA 32
 XX
 RESULT 15
 AAY36636
 ID AAY36636 standard; Protein; 25 AA.
 XX
 AC AAY36636;
 XX
 DT 17-SEP-1999 (first entry)
 XX
 DE Fragment of human secreted protein encoded by gene 49.
 XX
 KW Human; secreted protein; cancer; tumour; developmental abnormality;
 KW foetal deficiency; blood disorder; immune system disorder; inflammation;
 KW autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
 KW schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
 KW atherosclerosis; diabetes; cardiovascular disorder; kidney disorder;
 KW digestive disorder; endocrine disorder; infection; AIDS.
 XX
 OS Homo sapiens.
 XX
 PN MO9931117-A1.
 XX
 PD 24-JUN-1999.
 XX
 PF 17-DEC-1998; 98WO-US27059.
 XX
 PR 19-DEC-1997; 97US-0068369.
 PR 18-DEC-1997; 97US-0068006.
 PR 18-DEC-1997; 97US-0068007.
 PR 18-DEC-1997; 97US-0068008.
 PR 18-DEC-1997; 97US-0068053.
 PR 18-DEC-1997; 97US-0068054.
 PR 18-DEC-1997; 97US-0068057.
 PR 18-DEC-1997; 97US-0068064.
 PR 18-DEC-1997; 97US-0070923.
 PR 19-DEC-1997; 97US-0068169.
 PR 19-DEC-1997; 97US-0068365.
 PR 19-DEC-1997; 97US-0068367.
 PR 19-DEC-1997; 97US-0068368.
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 CC disorders, kidney disorders, digestive/endocrine disorders, infections
 CC and AIDS. The polypeptides are also useful for identifying their binding
 CC partners. The sequences given in AAX97907 to AAX97915 and AAY36223 are
 CC used in the exemplification of the present invention.

XX
 SQ Sequence 25 AA;

Query Match 7.9%; Score 130; DB 20; Length 25;

Best Local Similarity 100.0%; Pred. No. 0.00014;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 245 FEASPPAOGIPRAKVRHPLSYVAQR 269

DB 1 FEASPPAOGIPRAKVRHPLSYVAQR 25

Search completed: January 9, 2004, 00:41:48
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